1.

3.

Hour Angle End | Declin

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				DAVID DUNLAP OBSERVATORY
				74" LOG BOOK
				VOL 8
				PLATE NOS 5495-6326
				MARCH 1940 – NOV 1940

5

Date Wed. Aug. 20-21 M.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5495	H.D. 133386	14 59.1	60 36	I-25	Astra II	Set .010	-5.3	01 40	02 56	4	0^{h}9^{m}E
5496	" 165910	18 03.2	13 03	"	"	"	-6.3	03 08	05 08	1	1^{h}9^{m}E

Pointer set at 16.45

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							Clearing from midnight on, quite clear at 01.00.
02.36	4	0 27 E	60 24	1-2	5.95	A2	1 Filter 7-7-7
05.00	1	1 19 E	13 02	1-2	6.46	A0	7-7-7 Skyride!

	MC	SC	SW	MT	ST
Mar 21	+1m10s	+02s.4	+21s.4	-10s	-0s.3

7

Date Friday, March 22-23, 1940 H-B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Ind
- -5497	δ Gem	07 14.2	+22 10	I-25	E Proc	Set 0.10	A B -13.0 -4.0	19 40	20 50	1	1 22 W +
	"	"	"	"	"	"	-3.9	20 50	21 30		
							-4.0	21 30	22 25		
5498	HD89239	10 12.6	+27 55	"	Astro II		-4.0	22 30	00 16	3	1 48 W +
- -5499	Boo 2506	13 29.1	+4 10	"	Process		-4.0	00 24	02 50		1 07 W +
- -5500	γ Boo	14 28.1	+38 45	"	"	"	-4.0	03 04	03 52	2	+
	"	"	"	"	"	"		03 52	04 27		
	"						-4.0	04 27	04 46		2 04 W
- -5501	γ Boo	"	"	"	"	"	-4.0	04 48	05 32	4	2 51 W

Clear most of day; clouds late afternoon + early evening. Snow just at dark.
Had to clean much light snow off tube.
Reset Strömgren og Clear

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
20 50 1	1 20 W	+22 05	0	3.79	Fo	7-7-7 no filter	for B Setting 1. ~~out of list~~
21 30			0			7-7-7	5
22 25			0-1			7-7-7 1 filter	9 Clouds
00 16 3	1 48 W	+27 40	1-2	6.44	Bq	7-7-7	KSA 54
02 50	1 07 W	+03 55	1-2	4.99	A2p	7-7-7 no filter	for B Light clouds 1 00
05 52 2		+38 31	1-3	3.28	A3	7-7-7	" " 1 Delayed starting exposure because
04 17			2-3			7-7-7	5 of clouds. Cleared with improved seeing.
04 46	2 04 W		2			7-7-7	9
05 12 1	2 50 W		2	3.28	A2	7-7-7	2

Date Saturday, Mar. 23-24 1940 M-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
							-8°9				Clouds
	Clear	7.30	changed over to 12"								
							A B				set 12
5501 F.							-8°9				
			Cleared again but clouds formed overhead								just a
-5502	H.D. 92109	10 33.0	+14 47	I-12	Astra II	.025 L	-9.0	21 48	½ 00 15	1	2.15 W
5503	" 124586	14 09.9	31 40	"	"	.010	-19.0 -9.1	1 14	2 24	2	1.04 W
5504	" 140139	15 37.0	44 11	"	"	"	-19.0 -9.1	2 30	3 54	3	0.09 W
5505	" 144839	16 02.8	13 36	"	"	"	-9.1	3 58	5 26	4	1.11 W

Correction to Log Ol.
Sid T. $+0^{m}.5$

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	Cloudy and snow flurries in later afternoon and after sunset.						Pointing at 13.40
		25" - focus 23.6				tilt 23.17	Had clouded up again before
	Set	12" to		26.17		20.25	finished changing cameras.
						12-10.	focus a little too long.
		Reset focus to				26.13	Closed dome.
		just as set on star. -					
2 15 1	2 15 W	14 32	1	9.9	G5	½-1-½	No spots or strips on 5502 - No time
2 24 2	0 04 W		2-1	7.25	A0	1-2-1	strip exposure time. Plate left in plate
3 04 3	0 07 W	44 01	2-1	7.40	F0	1-2-1	holder in bottom of cupboard in focusing room
3 54 4	1 13 W	13 25		7.52	F2	1-2-1	Obs. H.F.B.

Date Sunday Nov 24-25, 1940 B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5506	H.D. 50384	06 47.9	45 57	I-12½	Ortho II	.010	A -16.0 D -7.0	19 08	20 32	2	
5507	74546	08 39.5	28 48	"	"	"	-7.0	20 40	22 10	11	
5508	78366	09 02.7	34 18	"	"	"	-7.0	22 15	22 49	1	
5509	83371	10 34.8	28 02	"	"	"	-16.5 -7.0	22 57	23 57	2	
5510	102589	11 43.5	20 21	"	"	"	-7.0	12 01	01 17	4	
5511	120817	13 46.7	42 40	"	"	"	-7.0	01 25	03 45	1	

ST corr. $+0.^{m}4$

Pointer at 15.0

Ending Time B.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1^{35} W	45 53	0-1-2	7.48	K0	1-2-1	Haze [illegible]
	1^{23} W	28 38	2	7.58	F_2	1-2-1	
	1^{38} W	34 06	2	6.45	F_8	1-2-1	
	1^{14} W	27 47	2-1	6.99	A_7	1-2-1	
	1^{26} W	29 06	2-1	7.11	A_2	1-2-1	Haze
	1^{51} W	42 26	2-1	7.54	A_2	1-2-1	Hazy, light clouds, sky thickening after this exposure, sky remained hazy thereafter. Covered up later

Date Monday Mar 25-26 1940, M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Int
							B				
5512	HD 98547	11 15.2	17 52	I-12	Astra II	.010 L	-4.0	23 02	-- 02	2	
5513	2 P.N. Cet.	14 17.3	47 33	"	"	.035 L	-4.1	00 18	—	3	

Pointer at 17.37

Ending Time G.A.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
						Cloudy	for first part of evening. Cleared later
			but wind	too	strong		to open right away.
	0 43 W	17 37	2	6.87	A0	1-2-1	
	—	47 21	2	900	—	½-½-½	

Orange Light clouds from E° on
thick at 3.45. Wait until
4.30 then took out plate. Sky
still thick closed at 5.00 P.M.

		HC	SC	BW	MT_s	ST
Mar. 26.	15h	+127.4	+07.0	−27.9	+02.2	+0m.2
				Asst	Reset	

15

Date Wed Jan 27-28, 1940 Hd. L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature A B	Starting Time E.S.T.	Ending Time E.S.T.	
-5514	Mod C 189 HD 65176	07 52.4	- 1 20	I-12	extra "	020	-5.5 +3.0	19 40	20 50	4
5515	HD 73971	08 36	47 16	"	"	010	-4.9 +3.4	20 56	22 00	1
-5516	HD 96548	11 02.3	23 52	"	"	"	-5.5 +2.7	22 05	23 05	2
5517	HD 107070	12 13.6	-00 14	"	"	"	-5.7 +2.9	23 13	03	3
5518	HD 115646	12 54.5	-03 16	"	"	"	-5.8 +2.7	00 08	00 54	4
5519	HD 115723	13 13.9	34 37	"	"	"	-5.8 +2.7	00 59	01 59	1
5520	HD 116648	13 42.0	39 00	"	"	"	-5.8 +2.7	02 02	03 02	2
5521	HD 137071	15 18.9	39 56	"	"	"	-5.8 +2.8	03 07	04 07	3
5522	HD 140[illegible]3	16 [illegible]	22 25	"	"	"	-5.8 +2.8	04 12	05 16	4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS Pointer 23.3
20 50	W 59m	— 1 28	1	8-1		1-1-1	Trouble finding Hagen
22 00	W 1h 25m	47 06	1	699	G5	1-2-1	Aurora 21.20. Rays, bands, changing rapidly
	W 5m	23 37	1	6.42	A2	1-2-1	Binary
3	0 08 E	-0 27	1	6.50	A3	1-2-1	B.S.C. Hagen
4	0 02 W	-03 31	1	5.87	A0	1-2-1	B.S.C.
1	0 48 W	34 24	1	6.98	K0	1-2-1	B.S.C.
2	1 23 W	38 46	1	7.00	K0	1-2-1	B.S.C.
3	0 52 W	39 17	1	7.03	K5	1-2-1	B.S.C.
4	1 07 W	22 17	1	7.14	K5	1-2-1	B.S.C. Hagen, clouds

	MC	SC	SW	MT	ST
Mar. 28	10	+1 19.5	+2.6	+3.4	-3.5 -0.2

17

Date Thurs Mar 28-29, 1940 Hd-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature A B	Starting Time E.S.T.	Ending Time E.S.T.	
-5523	HD 96528	11 02.3	23 52	I-12	Astra II	0.10	-5.5 +2.5	22 29	23 39	1
5524	107070	12 13.6	-00 14	"	"	"	-6.0 +2.5	23 34	0 14	2
5525	115723	13 13.9	+34 37	"	"	"	-6.0	0 18	(1 00)	3

Mar 29-30 Friday B-M Partly cloudy at sunset, thick fog later.

[illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS Pointer 23.2
W 32m	23 38	1	6.45	A2	1-2-1	Binary [illegible]
W 26	-0 28	1	6 00	A3	1-2-1	"
			6 98	K0	1-2-1	Sky falling in during exp Collimation Remained Stable

		MC	SC	SW	MT	ST
Mar. 29	12	+1 21.6	+10.4	17.5	-02s.0	-0m.3

19

Date Fri. Mar 29-30, 1940 B-M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
5526	H.D. 80652	09 15.9	17 02	I-12½	Eastman II	.010	-5.0 +3.5	21 09	22 19	4	
5527	H.D. 84107	09 37.7	30 27	"	"	"	-5.0 +4.0	22 24	22 50	1	
~~5528~~	~~H.D. 99004~~	~~11 18.5~~	~~17 42~~	"	"	"	~~-5.5 +4.0~~	~~22 55~~	(23 20)	~~2~~	

Seeing at 24.3

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 [illegible] W	16 79	1	6.93	A5	1-2-1	Last of haze in early evening. Clear
1 [illegible] W	30 14	1	5.79	A2	1-2-1	Later, but bright moon making it difficult
	17 27	1	7.09	A2	1-3	to determine amount of haze.
						Last haze by 23[illegible]15
						Stars are at about 23[illegible]50
						Closed dome
						Later in night some stars visible but very heavy ground fog made it undesirable to open dome

			MC	SC	SW	MT	ST
Mar.	30	10 + 1	22.7	+11.6	+28.3	-05.7	-0.3

Date Saturday March 30-31, 1940 H-T **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5529	HD 80390	09 14.4	+57 08	I-12	Ac II	Set 010	B +7.5	2.2 10 21 46	00 14 4	
5 [illegible]	132742	14 5 8	+39 40	"	"	"	-2.1	3 20	4 50 1	
5533	16 [illegible]	18 0 [illegible]	29 56	"	"	"	-2.3	4 05	5 10	
	Sun Mar 31 Ap 1			Hd-L	Blowing clear occasionally					from 26
	Monday Ap. 1/40 B									
	Changed to 25"				12" Set 20.25			Focus 26.09		
	Temp -5.8									
5530	[illegible] Tilt 23.15			Focus			23.4	"		
							23.6	3 → very good		
							23.8	9		

Cloudy all day and early evening. Gradually thinning out p
21 4 ons.

P 22

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
3 12 W	+56 52	1-2	7.33	M6	1-2-1	KS 12 Hazy + clouds. Sta. lost early first [illegible]
1 15 W	29 28	1-2	5.92	F2	1-2-1	[illegible]
0 3 E	29 56	2	7.07	G0	1-2-1	[illegible]

From 20.30. Very high wind - Hr

	MC	SC	SW	MT s	ST m
Apr. 1 12	+1 24.8	+13.3	+53.4	-06.2	-0.2

Date Monday, April 1-2, 1940 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
						cut	A B			
-5531	δ Gem	07 14.2	+22 10	I-25	E. Process	0.10	-3.1 +5.0	19 24	20 44	1
-5532	"	"	"	"	"			20 44	23 08	3
-5533	Boss 3506	13 29.1	+04 10	"	"	"	-3.3 +5.0	22 16	01 46	3
-5534	ζ Boot.	14 30.3	+30 11	"	"	"	-3.3 +5.0	01 52	03 12	1

Sunday April 3 Rainy day, occasional showers.

20[5]d q/r 3-4 IIIa – steady rain all evening strong E wind

Sunspot 254

Hour Angle End	Declination	Seeing	Ptg. Mag.		Sunspot	REMARKS
1 50 W	+22 05		F0	3.71	7-7-7	Setting 1 for B
3 15 W			"	"	7-7-7	2 Haze about 30m
3 30 W	+03 56	1-2	Asp	4.99	7-7-7	Haze
3 00 W	+19 38	1-2	F0	4.76	7-7-7	

A single very small bright patch of aurora, just visible in binoculars, a few degrees above horizon, a point S of E, from 11h 35m - 1h 50m. Pulsating from very light most E vanishing with a faint glow 1° = 30s.

	MC	SC	SW	MT	ST
Apr. 2 12	+1 25.9	+14.2	+03.9 add. 1m	-03s.0	-02m
Apr 3 12	+1 27.2	+13.4	+15.7	-14s.6	-0m.4
Apr 4, 12	+1 28	+16.5	+28.0	-15.0	-0.6

Date Friday, Oct. 5-6 1940, M – B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
			Changed over from 25°				focus was	23.52			
							B	Set	focus		
[illegible] F.							+1.5			2	
-5535	HD 92109	10 33.0	+14 47	I-12	Ast. II	.025	+1.7	19 41	22 50	1	
-5536	BF Dra	13 42.7	-0 06'	–	–	.030	+1.7	22 57	2 10	2	
5537	H.D. 140139	15 37.0	44 11	"	"	.010	-7.0 +1.7	2 23	4 09	3	
5538	165123	18 01.8	42 57	"	"	"	-1.0 +1.6	4 15	5 15		

Slit of electromagnet of hourly mech. did not go back by itself after slit is widened. Pointer set to 22.34 P.26

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		
	tilt 23.15					
	f 12" to 26.14		tilt to 20.25			
	low altitude				12/8	
22	0 54 W	14 33	2	9.9	G5	½-1-½
	1 05 W	-0 18	2	9.5	A0	½-1-½
	1 11 W	14 01	2	7.4	F0	1-2-1
	0 09 E	12 55	3	7.2	A0	1-2-1

Heat coil to slit working well

REMARKS

		MC	SC	SW	HT	ST
Apr. 5	16	+1 29.2	+17.5	+40.7	-16h.7	-0m.4

focus a little long. Set focus to 26.07

light bags from SE at 21 00

Star image at 3 reading image unsteady, seeing very poor

Date Saturday Apr 6-7, 1940 B-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle East
5539	H.D. 73596	08 34.1	32 19	I-12	Astra II	.010	-1.5 +6.9	19 23	20 17	1	24W
5540	H.D. 79929	09 11.8	27 51	"	"	"	-1.5 +6.8	20 21	21 45	3	14W
5541	H.D. 84005	09 37.0	30 35	"	"	"	-1.6 +6.7	21 49	23 07	2	2"W
	Changed to 25" cam.			12" from vert. of			26.08,	set 20.25.			
5541F	Outside	time	base		23.4 23.5 23.6	Slits 1	foggy	Jul	23.15		
5542	Bon 3506	13 29.1	TOA 10	I-12	E-33	.010	+6.0	1 00	3 00	4	.5W
5543	HD Bon	14 30.3	30 11	"	"	"	+6.0	3 47	5 21		.2W
	Sunday B Changed back to 12½"										
5543F	Outside time base			temp -1.5	26.0 26.1	Slits 2 5		1/10	Jul	20.25	
	26.1 a bit short, next camera to 26.15										

Pointer at 26.5

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
						MC SC SW MT ST
0 29W	32 07	0-1-2	6.78	F_2	1-2-1	Apr. 8, 12 +1 32.5 +20.4 / 13.9 -8.5 -0.2
1 14W	27 38	1-2	6.95	F5	1-2-1	
2 11W	30 22	1-2	6.83	A5	1-2-1	
2 53W	+04 50	1-2	4.49	A_2p	No filter 6-6	
3 34W	29 29	1-2	4.76	F6	6-6	
						MC SC SW MT ST
						Apr. 9, 12 +1 33.7 +21.4 +24.2 -16.6 -0.4
						add 1m

Date Tuesday, April 9-10, 1940 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
5544	HD 64958	07 51.3	+44 15	I-12	Kodak II	0.10	+6.3	19 32	20 36	1	
5545	80370	09 14.4	+57 08	"	"	"	+6.3	20 42	21 42	2	
5546	81702	09 22.2	+56 41	"	"	"	+6.2	21 45	22 41	3	
5547	100350 f.	11 25.7	+60 15	"	"	"	+6.3	22 49	23 49	4	
5548	" f.	"	"	"	"	"	+6.3	23 50	01 30	1	
5549	127726	14 27.9	27 08	"	"	"	+6.3	01 33	02 10	2	
5550	129153	14 35.9	13 57	"	"	"	+6.3	02 13	02 49	3	
5551	130917	14 45.7	20 01	"	"	"	+6.3	02 53	03 21	4	
5552	136931	17 15.0	38 56	"	"	"	+6.3	03 17	04 13	1	
5553	173415	18 40.1	47 29	"	"	"	+6.4	04 18	05 10	2	
	Wed Cap 10-11/40			Hd-L	Partly clear			8.30 and 10.30			
	7										
	Tri Cap 12 Hd.										
5553F	Focus check			I-12	Kodak II 010			focus at 26.17		2	

Hour Angle End	Declination	Seeing	Ptg. Mag.	comp.	REMARKS
1 37 W	+44 07	2	7.47 K0	1-2-1	
1 19 W	+56 57	2-3	7.33 M4	1-2-1	
2 15 W	+56 29	2-3	7.28 F2	1-2-1	
1 17 W	+60 01	3	* A5	1-2-1	[illegible] 12". 5.0 [illegible]
2 58 W	"	2		1-2-1	
0 36 W	+26 33	2	5.96 A2	1-2-1	BSC
1 07 W	+13 46	2	6.12 A5	1-2-1	"
1 29 W	+28 50	2	5.72 A2	1-2-1	"
0 07 E	+38 50	2	6.99 A0	1-2-1	"
0 35 E	+47 30	2	6.95 A2	1-2-1	KS 1 38

		MC	SC	SW	MT	ST
Apr. 10	12	+1 34.7	+24.4	+35.4	-27.0	-0.5
Apr. 11	12	+1 36	+34.0	+48	-29	-0.5
			SW	SC		
Apr 12	13	+1 37	+59.4	+25.3	-30.6	-0.5

Bare outside 10/10 26.20 [illegible]

Date Jan afs 12-13, 1940 Hd-b Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
5554	40 72778	08 29.6	42 56	I-12	extra II	010	-8.7 -0.4	19 33	20 433	
5555	76292	08 50.1	40 35	"	"	"	-8.9	20 47	21 23	4
5556	96528	11 02.3	23 52	"	"	"	-9.0 -0.4	21 27	22 15	1
5557	108765	12 24.7	21 27	"	"	"	-0.4	22 19	22 51	2
5558	106223	12 08.2	30 51	"	"	015		22 59	0 35	3
5559	123895	19 09.9	16 05	"	"	.010	-9.0 -0.5	0 45	"	4
5560	137071	15 18.9	39 56	"	"	"	-9.0 -0.7	2 17	(2)	1

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	W 1h 17m	42 45	1	7.04 A_2 1-2-1	KSH
	W 1h 36m	40 25	0	6.22 F_2 1-2-1	BSC
	W 17m	23 38	0	6.45 A_2 1-2-1	Bin
	E 30m	21 12	0	5.92 A_2 1-2-1	BSC
	1° 32' W	30 36	0	7.52 A_2 1-2-1	
	1° 12' W	15 55	1	7.09 F5 1-2-1	KSA
	(-42' W)	39 45	2-3	7.03 K5 1-3	BSC, Snow flurry came on suddenly from N

		MC	SC	SW	MT_c	ST
Apr. 13	10	+1 38.4	+25.4	+11.4 Adv 1m	-28.0	-0.6

Date Saturday, Apr 13-14, 1900 M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Exposure Time
							B			
-5561	HD. 72109	10 33.0	+17 47	7 1/2	Ast-B	.030	-0.5°	20 : 04	23 20	1

Rec'd stroke gone B also
report it missing Early night.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Points at 20.72 REMARKS
				Clouds after sunset - cleared late
1 [illegible]	14 . 32	2	9.9 G5	½-1-½ light cloud at 21.29 light cloud at 21.30
				Thick intermittent thick at 23.20
				Closed down 23.30
				Snowing quite hard so done closed.

Date Sunday Apr. 14-15 1940 B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
5562	HD 68703	08 08.5	17 58	I-12½	Cramer II	.010	A -8.5 B +0.5	19 39	20 21	1	11 N
5563	74346	08 39.5	28 48	"	"	"	+0.5	20 26	21 49	4	5 N
5564	79929	09 11.8	27 51	"	"	"	-8.5 +0.5	21 49	22 41	3	5 N
5565	84005	09 37.0	36 15	"	"	"	-8.5 +0.5	22 ~~46~~ 54	23 36	1	5 N
5566	99267	11 20.3	30 32	N	"	"	-8.5 +0.5	23 41	00 41	2	5 N
5567	120817	13 46.7	42 40	"	"	"	-8.5 +0.3	00 55	—	3	

Pointer at 21.3

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	1 25 W	17 50	2-3	6.71 F_0	1-2-1	K.S.A. bright comp.
	2 17 W	28 40	2-3	7.58 F_2	1-2-1	K.S.A.
	3 [illegible] W	27 39	2-3	6.95 F_5	1-2-1	K.S.A.
	3 12 W	30 21	2-3	6.82 A_5	1-2-1	K.S.A. (Set on wrong star list)
	2 10 W	30 16	2-3	7.16 F_0	1-2-1	K.S.A. 55
	—	42 25	2-3	7.54 A_2	1-2-1	K.S.A. 33 Now about 1.40 th. h.r p.m. sky remaining mostly thick.

		MC	SC	SW	MT	ST
Apr. 15	12	+1 41.4	+26.1	+35.7	-26.4	-0.m6

Date Yesterday April 15-16 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5568	H.D. 99609	11 22.5	45 07	I-12½	Astro II	Set .010	B +3.0	23 16	00 16	4
5569	" 10 16 20	11 32.5	41 48	"	"	"		23 42	01 36	1
5570	" 12 23 65	13 36.4	09 22	"	"	"	+5.3	01 ~~45~~ 55	02 25	4
5571	" 139403	15 33.4	54 57	"	"	"	+5.3	02 30	02 56	3
5572	" 157617	17 19.2	08 56	"	"	"	+4.8	03 01	03 47	4
5573	" 170200	18 23.1	06 08	"	"	"	+4.5	03 52	04 36	1

Tues Apr 16-17 Hd - (L) Thickening at summit only all evening till about

Clouds + haze only moving.

Count set 23.3 [illegible] but did not run [illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.		REMARKS
2 10 W	+41 52	2	7.14 F_0	1-2-1	KSA 31	
3 17 W	+41 34	2	7.26 F_5	1-2-1	"	Haze
1 46 W	+09 08	2	5.94 A_2	1-2-1	BSC	Had wrong star, reset.
0 41 W	+54 48	2	5.74 A_0	1-2-1	"	
0 15 E	+08 52	2	6.99 K_2	1-2-1	"	
0 30 E	+06 08	2	5.57 B_8	1-2-1	"	Vert. control a bit up. Set temp. fell 4.5° in last.
first mag stars showing						
23.10						Light clouds at start of 5573 sky murky.

		MC	SC	SW	MT_s	ST_m
Apr. 16	12	+1 43.2	+26.5	-12.2	-27.0	-0.6

Date Tuesday a/ 16-17, 1940 Mel-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End	D
5574	4D116 568	13 19.3	-04 39	I-12	astra II	0.10	+10.6	00 00	00 40	2	0[4]E	
5575	" 131911	14 51.5	14 51	"	"	"	+5.9	00 44	01 18	3	1[13]E	
5576	" 140232	15 37.4	18 47	"	"	"	+5.9	01 22	01 56	4	1[42]E	
5577	" 141316	15 43.7	-03 31	"	"	"	+5.9	02 01	02 37	1	0[14]W	
5578	" 142531	15 50.0	56 07	"	"	"	+5.9	02 44	03 34	2	1[26]W	
5579	" 157681	17 19.6	53 31	"	"	"	+5.9	03 39	04 [illegible]	3	0[4]W	

Wednesday a/ 17-18 1940 M
Rain all evening

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0^{48} W	-04 52	0-1	6.10	F_2	1-2-1	BSC Note: Took the stars just south of the brighter one marked on the field chart to a guess better in clear and twilight.
	0^{13} E	+14 38	0-1	5.77	A_0	1-2-1	B.S.C.
	0^{20} E	+18 37	0-1	5.88	A_3	1-2-1	"
	0^{14} W	-03 39	0-1	5.69	A_3	1-2-1	" Fringe
	1^{06} W	55 58	1	6.92	K_0	1-2-1	"
	0^{42} W	53 46	1	7.13	K_3	1-2-1	"

			MC	SC	SW	MT	ST
Apr 17	12	+1	45.0	+26.8	+59.4	-30.2	$-0^m.6$
Apr 18	12	+1	45.0	+27.5	+1 11	-32.0	$-0^m.7$

Date Thursday, April 19-20 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5580	HD 141472	15 44.2	55 47	I-12	Ilford	.010	35	3 01	4 15	4
5581	" 160054	17 32.8	130 51	"	"	"	35	4 15	4 [illegible]	[illegible]

Tests, Apr. 19-20/40 M

Thick all evening. Broke at midnight.

Sunday April 21-22 - L

Breaking a little midnight, then remained hazy but cleared slowly, fairly clear about 2.00. Got ready to open but more hazy & filled Today. Closed about 3.00.

Cloudy Forlier.

Temp Control -25°

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2 01W	55 39	0	6.97	K2	1-2-1	
0 47W	55 49	0	5.82	A2	1-2-1	

			MC	SC	SW	MT	ST
Apr. 19	12	+1	47.5	+27.6	+22.4 Adv 1m	-33.8 +26.2 Reset.	-0.4
22	12	+1	51.1	+29.7	+58.1	+26.5	+0.4

Date Sunday, July 22-23 1950 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5582	HD 160618	17 [illegible]	35	I-12	[illegible]	.010	+3°	21 5	23 21	2	
-5583	150265	16 [illegible]	26	—	—	.030	+5.8	23 39	02 39	3	
5584	154528	17 00.9	77 48	"	"	.010	+5.8	02 49	03 39	4	
5585	165910	18 03.2	13 03	"	"	"	+5.8	03 49	04 39	1	

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
				A₂		
1 37 W	11 19	1-0	6.52	A₂	1-2-1	
0 04 W	86 20	1			½-1-½	
0 28 W	77 43	2	6.66	A₀	1-2-1	
0 22 W	13 03	2-1	6.46	A₀	1-2-1	

		MC	SC	SW	MT	ST
Apr. 23	12	−01.6 Reset + wt. added	+30.0	+11.3 Adv 1m	+26.6	+0.5

Date Tues April 23-24, 1940 Hal. L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature A	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5586	HD 91130	10 26.2	32 54	I-12	Ortho IIc	0.10	1.3	9.5	19 45	20 24	2	[illegible]
5587	96528	11 02.3	23 52	"	"	"	1.3	9.1	20 26	21 10	3	[illegible]
5588	106223	12 08.2	30 51	"	"	"	1.5	9.5	21 16	22 16	4	[illegible]

Pointer at 3.7 (end plug in)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	E 17m	32 40	2	5.81	B9	1-2-1	tSA
	E 4m	23 36	2	6.45	A2	1-3	Bem
	W 57m	30 35	2	7.52	A2	1-2-1	tSA Clouds, last hour. Closed 0.00

		MC	SC	SW	HT	ST
Apr. 24	12	-04.2 Removed wt. 2.0	+30.2	+25.2	+25s.2	+0m.4

Date Wednesday, April 24-25, 1940 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature A B	Starting Time E.S.T.	Ending Time E.S.T.		
~~5588~~	HD 71151 p	8 20.7	+27 16	I-12	Astro H	010		19 45			
5589	10054 p	11 25.7	+60 15	"	"	"	+10.8	22 18	23 12	1	
5590	10054 f	"	"	"	"	"		23 13	01 7	2	

Cloudy all day; clearing at sunset

Temp at 11.7 (at 19[15]) dew pt. off 20[37]-22[7] Humidity 10.7

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
		+27 07		6.36*	A2		Cloud double. Clouded over almost from start. N.G.
	1 39 W	+60 02	2	7:	A5	1-2-1	Double 12". Brighter, preceding. Eye steady.
	3 44 W			7:		1-2-1	Fainter following. Tried both. getting thicker: star gone at 21.17 Closed at 3.00 sky thick.

	M.C.	SC	SW	MT	ST
Apr. 25 12	-6.0	+3.8	+3.5.8	+24	-0.7

Sunset 21[15] (clouds) — 22[20].

Date Sunday Oct 30-31 L-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Ind
5591	H.D. 93847	10 44.9	56 46	I-12½	Astra II	Set. 010	B 10.7	20 00	21 40	3	0h
Hd+L changed to I-25							I-12 focus was				2h20
5591F	Focus			I-25	Astra II	010					Setting
5592	Alcor H.D. 116842	13 21.2	55 30	"	Process	"	10.6	22 26	23 26	3	6h40
5593	H.D. 142926	15 52.2	42 51	"	Astra II	"	10.5	23 45	00 55	4	8h40
5594	"			"	"	"	10.6	00 55	-	1	10h
5595	"			"	"	"	10.6	2 05	3 15	-	11h20
5596	"						10.5	3 15	4 25	3	-
	Fri ap. 26/40 Hd changed to I-12										
5595F	Focus			I-12	Astra II	010	B 8.6			3	Setting

Pointer set at 10.3 plug in

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	0 51 W	56 32	1	7.32	B9	1-2-1	I.C.S.A. 13
	26.20 Outside disturbance	Tilt 20.27				no filter 10/10	Tilt 23.17 Set 1 from 23.4
							6 23.6
							9 23.8
	0 02 W	55 18	1	4.16	A5	No filter 10-10-10	23.2 should be better set
	E 1 4	42 42	1	5.56	B9e	1-filter 4-4	Setting delayed by clouds.
	W 10 m	Completed	1	"		4-4	
	W 1 h 20		1	"		4-4	
				"	"	4-4	Correct!

		MC	SC	SW	MT	ST
Apr. 26	12	-06.3	+31.9	+49.9	+27.0	+0m.5

	Outside disturbance					10/10	From 26.20 Tilt 20.27

Date Friday april 26-27, 1940, H-B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
5596	HD 71151 nf	08 20.7	+27 16	I-12	astra II	Slit 010	B 9.9	19 58	20 44	4	
5597	71151 sf	"	"	"	"	"	9.9	20 45	22 25	1	
5598	106053	12 07.1	+78 00	"	"	"	9.8	22 35	23 17	2	
5599	119476	13 38.4	+65 20	"	"	"	10.0	23 22	23 42	3	
5600	122365	13 56.4	+09 22	"	"	"	10.3	23 48	00 18	4	
5601	129153	14 35.9	+13 57	"	"	"	10.1	00 24	01 04	1	
5602	132772	14 55.8	+39 40	"	"	"	10.0	01 10	01 36	2	
5603	139493	15 33.4	54 57	"	"	"	10.1	01 41	02 03	3	
5604	154084	16 58.2	25 40	"	"	"	10.3	02 10	03 16	1	
5605	156891	17 15.0	38 55	"	"	"	10.1	03 22	04 22		

Start focus to 26.16 from 26.19 on 20. P52

Temp. at 10.3 (start plotting in)

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2 24 W	+27 07	2	6.36*	A2	1-2-1	KSA 52. Brighter, 7 west, following in fair. Third rising seems to be very irregular. Have to remove all of it.
4 05 W		2-1-0			1-2-1	" fainter south preceding
1 12 W	+77 45	2	6.64	A0	1-2-1	KSA 5
0 05 W	+65 06	2	5.70	A0	1-2-1	BSC
2 [illegible] W	09 10	2-1	5.94	A2	1-2-1	BSC
0 28 W	13 45	2-1	6.12	A5	1-2-1	BSC
0 42 W	39 28	2	5.92	F2	1-2-1	BSC
0 32 W	54 47	2-1	5.74	A0	1-2-1	BSC
0 20 W	25 34	2	6.95	K0	1-2-1	BSC
1 09 W	38 50	2	6.98	K0	1-2-1	BSC

		MC	SC	SW	HT	ST
Apr. 27	10	-07.2 Removed wt 1.0	+32.0	+00.4 add 1.m	+29.s2	+~~38~~ 0.m5

Date Sat Ap 27-28, 1940 Hd-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature A B	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5606	HD 78661	09 04.4	+11 58	I-12	Eastman II	0.10	+13.5 +12.0	19 54	21 07	1	
5607	91130	10 26.2	32 54	"	"	"	3.4 11.1*	21 09	21 09	4	
5608	108765	12 24.7	21 27	"	"	"	3.2 11.1	21 54	22 20	2	
5609	112846	12 54.5	-03 16	"	"	"	3.0 11.1	22 29	23 03	3	
5610	116568	13 19.3	-04 39	"	"	"	3.1 11.1	23 06	23 50	4	
5611	121607	13 51.4	01 32	"	"	"	11.1	23 53	0 33	1	
5612	127167	14 29.8	+01 16	"	"	"	11.1	0 36	1 10	2	
5613	131451	14 51.5	+14 51	"	"	"	11.1	1 13	1 43	3	
5614	140227	15 37.4	+64 36	"	"	"	11.1	1 49	2 29	4	
5615	161959	17 43.4	+28 58	"	"	"	11.2	2 36	4 36	1	

* Pointer set at 11.2

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
W2^{h}03	11 47	1	6.74	F_0	2-1-1	+SA.
W1^{h}26	32 40	1	5.81	B9	1-2-1	"
W4^m	21 12	1	5.78	A_2	1-2-1	BSC
W13^m	−3 30	1	5.87	A_0	1-2-1	
W36^m	−4 54	1	6.10	F_2	1-2-1	"
W046		1	6.02	A_3	1-2-1	pinhole in Dome ?
0 50W	+ 1 05	1	5.88	A_3	1-2-1	"
0 54W	14 46	2-1	5.77	A_0	1-2-1	"
0 59W	69 27	2	6.86	K_0	1-2-1	"
0 59W	25 54*	2-1	7.36	A_0	1-2-1	KSA.

Date Sun Apr 28-29/4 T-L (Fan Y) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
							A B			
5616	HD 84005	09 37.4	+30 35	I-12	Ila-E	0.12	6.1 14.2	19 57	21 27	2
5617	103676	11 51.2	27 15	"	"	"	6.0	21 30	23 10	3
5618	119455	13 38.3	35 30	"	"	"	5.9	23 13	00 13	4
5619	143584	15 56.2	50 10	"	"	"	6.0 14.1	00 18	00 58	1
5620	150483	16 36.2	12 35	"	"	"	14.2	01 03	01 37	2
5621	152224	16 47.0	32 44	"	"	"	14.2	01 41	02 55	3
5622	153897	16 57.1	27 21	"	"	"	6.0 14.2	02 33	04 09	4
5623	175869	18 52.3	02 26	"	"	"	6.0 14.2	04 14	04 35	3
	Apr. 29 - Silvered									

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
						Pointing 13.4	
7 12 7 12	1 58 W	30 24	0	6.82	A_5	1-2-1	KSA
	1 27 W	27 02	0-1	7.21	F_2	1-2-1	"
	0 43 W	35 16	0-1	6.98	K_0	1-2-1	BSC
	0 48 E	50 02	0-1	6.18	F_0	1-2-1	"
	0 50 E	12 28	1	6.04	A_2	1-2-1	"
	0 18 W	32 37	0-1	7.26	K_0	1-2-1	KSA. 61
	1 22 W	27 15	1	6.79	F_5	1-2-1	" " Haye
	0 05 E	02 25	1	5.60	B_8	1-2-1	B.S.C Haye

		MC	SC	SW	MT	ST
Apr. 29	10	-06.5	+32.6	+12.6	-29.0 Reset	-0.5
Apr 30	10	-06.4	+33.0	+27.7	-36.4	-0.4
Apr. 31	13	-06.5	+33.5	+40.7	-4a	m
					-20.8	-0.7
May 2	10	-07.0	+33.6	+49.6	-40.0	-1.2
May 3	10	-07.0	+33.6	+03.2	+18.2	+0.2
				adol m	Reset	m
May 4	10	-07.0	+33.6	+18.6	+18.6	⊕0.3

Date Tuesday May 4-5 1940 M-B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
							B			
5624	BD 47°2134	14 17.3	47 33	I-12	N.T.a.I	1030	+9.7°	23 07	02 29	1
5625	HD. 160740	17 36.5	44 04	"	"	.010	+11.5	02 37	03 53	2
5626	180553	19 11.9	27 17	"	"	"	+11.5	04 00	04 26	4

Con. 2 on visit 2. M showed M 3 and V visible with 74", Hd showed Venus with 4".

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
						Points at 12.50
2 45W	47 22	2	9.0		½-1-½	Haze and poor seeing, Towards end of program.
0 50W	44 00	1-2	7.25	Az	1-2-1	Target to set slit. Hazy
0 12E	27 19	2	6.24	Bq	1-2-1	

Date Sunday May 5-6, 1940 B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
5627	H.D. 92371	10 34.8	28 02	I-12½	2 Star E	.010	B +15.0	20 20	21 04	1	1.06 W
5628	99267	11 20.3	30 32	"	"	"	+15.8	21 08	21 48	2	1.09 W
5629	102589	11 43.5	29 21	"	"	"	+15.5	21 52	22 42	4	.35 W
5630	120702	13 46.0	43 02	"	"	"	+15.5	22 50	23 30	2	0.21 W
	120817	13 46.7	42 40	"	"	"	+15.6	23 34	—	1	
		Sunday May 6-7 1940				LL					
		" "		"	"						
				Kay. and thin cloud for faint half							
				of night. Looking 3 mag. in gen. at last time							

Pointer at 15.3; set out to 15.8

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
21[h]	1[h] 05[m] W	27 49	2-3	6.99	A_2	1-2-1	Blew Lee. grinding fine.
2:[41]	1 09 W	30 18	2-3	7.16	F_0	1-2-1	
1:[42]	1 35 W	29 07	3	7.11	A_2	1-2-1	Clouds at 22[h] 15[m]; Clear 22[h] 25[m]
23[h] 2	0 21 W	42 50	3-2	7.18	F_0	1-2-1	
		42 25		7.54	A_2	1-	Haze during setting, thickening steadily until 0[h] 00[m] when star not to be lost to clouds. Sky completely cloudy at 1[h] 15[m]. Closed.

		MC	SC	SW	MT	ST
May 6	12	-07.1	+35.1	+34.7	+19.4[s]	+0.3[m]

Date Monday May 6-7 M.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
5631	H.D. 164740	17 36.5	+44 04	I-12½	Astra II	Set 010	B 15.1	00 22	02 02	3	
5632	" 165623	18 01.8	42 57	"	"	"	15.1	02 10	03 50	4	
5633	" 180653	19 11.9	27 17	"	"	"	14.9	03 55	04 25	1	

Foote set at

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	0 53 E	43 59	.0	7.25	A_2	1-2-1	KSA. 37
	0 30 W	42 57	0-1	7.20	A_0	1-2-1	" Orange
	0 05 E	27 20	0	6.24	B_9	1-2-1	" 63 Orange light cloud

		HC	SC	SW	MT	ST
May 7	14	-07.7	+35.0	+59.0	+21.8	+0.3

Date Tuesday May 7-8 1940 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5634	HD 106053	12 07.1	+78 00	I-12	Ansco II	Set 010	B 12.3	21 55	22 29	2	
5635	108399	12 22.1	+72 29	"	"	"	12.4	22 33	23 17	3	
5636	132890	14 56.5	+62 04	"	"	"	12.4	23 22	00 22	4	
5637	155513	17 07.0	+61 17	"	"	"	12.4	00 28	01 18	1	
5638	163466	17 51.2	+60 25	"	"	"	12.4	0 23	02 07	2	
5639	172569	18 35.9	+63 24	"	"	"	12.3	02 14	02 42	3	
5640	161178	17 33.0	+72 31	"	"	"	12.4	02 47	03 17	4	

Clouds early evening; gradually thinning 21 h.m.s.
Temperature at 12.6.

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Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 07 W	+77 45	1-2	6.64	A0	1-2-1	KSA 5 Light haze
1 39 W	+72 14	2	7.44	K0	1-2-1	" 5 " "
0 11 W	+61 53	2	7.10	A_2	1-2-1	" 15
1 03 E	+61 11	2	7.11	F_5	1-2-1	" 16
0 58 E	+60 21	2	6.88	A_2	1-2-1	" 16
1 07 E	+65 23	2	6.08	A_3	1-2-1	B.S.C. Clouds 2nd
0 36 W	+72 28	1	6.96	K_0	1-2-1	" Clouds, thicker toward end.

Remaining mostly thick.

	MC	SC	SW	MT	ST
May 8 10	-08.1	+35.6	+09.6 Adv. m	+17.3	+0.3

Date Wed Thurs May 8-9, 1940 Hd-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5641	HD 106223	12 08.2	30 51	I -12	Curtis I	0.10	+4.9 +12.8	20 56	22 10	1	
5642	HD 116568	13 19.3	-04 39	"	"	"	+4.5 +12.2	22 20	22 50	2	
5643	HD 120048	13 42.0	39 00	"	"	"	+4.3 +12.1	22 56	23 36	3	
5644	HD 127167	14 24.8	01 16	"	"	"	+4.1 +12.3	23 41	00 11	4	
5645	" 141378	15 43.7	-03 31	"	"	"	+4.1 +12.3	00 18	00 48	1	
5646	" 150378	16 35.6	04 25	"	"	"	+4.0 +12.3	00 59	01 31	2	
5647	" 166868	18 07.5	29 39	"	"	"	+4.0 +12.2	01 39	02 15	3	

Clouds for a while after moment.

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Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
W 50m	30 37	1	7.52	A_2	1-2-1	
W 19m	-4 51	1	6.10	F_2	1-2-1	
W 42m	38 47	1	7.00	K_0	1-2-1	Right ascension? ✓ Trouble with RA clamping
O 34m W	01 06	1	5.55	A_3	1-2-1	B.S.C.
O 08 E	-03 37	O	5.69	A_3	1-2-1	"
O 16 E	04 20	O	5.73	A_3	1-2-1	"
O 47 W	29 37	1	7.52	A_2	1-2-1	K.S.A.62 clouds 2^{23} - 3^{05} large, clouds

		MC	SC	SW	MI	ST
May 9	12	-08.5	+36.8	+23.8	+14.6	+0m.2

Date Thurs May 9-10, 1940, Hd - T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature A	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5645	HD 91636	10 29.8	09 10	I-12	Extra F	0.10	5.6	13.9	20 09	20 39	1	4h 01m
5649	HD 106223	12 08.2	30 51	"	"	"	5.6	13.5	20 45	22 05	2	W 49m
5650	HD 121607	13 51.4	01 32	"	"	"	5.3	13.0	22 11	22 41	3	E 19m
5651	HD 127167	14 24.8	01 16	"	"	"	5.4	13.5	22 45	23 21	4	E 12m
5652	HD 133161	14 57.9	16 26	"	"	"	5.3	13.5	23 26	0 36	1	
5653	142531	15 52.0	56 07	"	"	"	5.3	13.7	0 43	1 12	2	
5654	154181	16 58.2	74 26	"	"	"	5.5	13.6	1 20	2 49	3	
5655	158013	17 21.7	57 05	"	"	"	5.5	13.6	2 30	3 00	4	
5656	166867	18 07.5	29 84	"	"	"	5.4	13.5	3 07	3 17	1	

Pointing at 12.?

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	W 1h 01	8 55	1	5.70	A0	1-2-1	Earthshine
	W 48m	30 35	1	7.52	A2	1-2-1	RA clamping ~~mechanism~~ but does not clamp
	E 19m	1 20	1	6.02	A3	1-2-1	Heat had not been coming on. Reset at 11.3
	E 12m	1 05	1-2	5.88	A3	1-2-1	
		16 16	2	7.55	G0	1-2-1	
	0 16W	56 00	2	6.42	K0	1-2-1	
	0 21W	56 20	2	7.59	F5	1-2-1	
	0 32W	57 02	3	6.61	A2	1-2-1	
	1 ~~-~~W	29 38	3.2	7.52	A2	1-2-1	Seeing worse toward end.

	MC	SC	SW	M.T.	S.T.
May 10	-08.9	+37.6	+34.2	+09^s.4	+0^m.1

Sunday May 12 H + Hd leaned a tents in the west, and sliding [illegible] turnbuckle bridge. Finished putting [illegible] afternoon [illegible]

Date Saturday May 11-12, 1940 H-T **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
							A				
5657	HD 127726	14 27.9	+27 08	I-12	A-A. II	010	34 11.3	22 57	23 13	2	
5658	129153	14 35.9	+13 57	"	"	"	3.4 11 3	23 17	23 35	3	
5659	130917	14 45.7	+29 01	"	"	"	3.4 11.5	23 38	23 52	4	
5660	132772	14 55.8	+39 40	"	"	"	3.5 11 7	23 55	0 11	1	
5661	134493	15 3.4	54 57	"	"	"	3.5 11 7	0 18	0 32	2	
	134493	"	"				3.6 11 8	0 32	0 46	"	
5662	153845	16 26.8	17 00				3.6 11 8	0 57	(1 51)		

Mon May 13-14 Hd-L Partly Eq. 21
also partly clear 22.20 - 23.10

about 150 + visitors. H showed Neptune and M3; Natural ... and Venus ...

Time lost after visitors due to declamp staying on; cleaned stuff and adjusted contacts O.K. Temp set 10.4 p. 70

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 15 E	+26 56	2	5.96	A2	2-2	BSC
	0 01 E	+13 46	2	6.12	A5	2-2	BSC
	0 17 W	+28 50	2	5.72	A2	2-2	BSC
	0 15 W	+34 30	2-1	5.92	F2	2-2	BSC
		54 49	2	5.74	A	2-2	BSC Set 1.
	0 13 W		2			2-2	1. Set 6.
		76 55	2	7.47	F0	1-2-1	KSA Haze - image good 1.5 Variable Thick haze thereafter. Closed 3.00 - Had to shut down by hand

2h 21.30, Then thick again.

		MC	SC	SW	MT	ST
May 13	14	-09.3	+41.1	+17.3 adv 1m	+08.4	+01
May 14	10	-09.7	+41.9	+27.5	+07.0	+00

Date Tuesday, May 14-15, 1940, H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						Slit	A E			
5663	HD 93286	10 41.2	+60 38	I-12	Astro II	010	9.1 17.5	17 20		4
		Wednesday		May 15-16,	1940		M			
					Rain all evening					
		Friday			8, 1940	H-R				
					0					

Hour Angle End

Cloudy and showers during day; clearing at sunset but
still somewhat hazy at dark.
Temp set 15.2

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	+60 25	2	7.50	F0	1-2-	KSA 13 Cloud 20.4E Cloud edge, Rain 21.10

Several fairly clear intervals during evening, but repeatedly clouded over, and several light showers. Thunderstorm around horizon. Cloud of 23.

	MC	SC	SW	ST	MT
May 15 13	-10	+43.6	+42.6	+0.7	+5.0
				n_3T	s_mT
May 16 13	-10.9	+44.1	+53.6	+05.2	0.0
May 17 10	-11.1	+45.0	+04.6 Adv 1m changed setting 1 notch	+06.0 s	0.0 m
May 18 10	-11.6 Removed wt 0.5	+46.1	+0.9	+07.0	+0.1 m

Date Saturday May 18-19, 1940, M-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
							B				
5664	HD 150165	16 34.8	86 26	I-12	Extra II	.025	+12°.4	23 35	1 25	1	0
~~5665~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~"~~	~~"~~	~~.015~~		1 56	—	2	

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100+ mile N almost moon thing
cloudy with 7+ mid and fuzzies
T showed Venus and double star work
4 inch
Clouds for rest of time after reaching
hours.
Pointing out to 10-15.

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 32 W	86 19	2	6	A0	½-1-½	
					B2	½	Showed by finding star hops. Eyepiece height

		MC	SC	SW	HT	ST
May 20	10	-11·2	+47·7	-08·3	+12ʰ·2	+0ᵐ·1

Date Monday May 20-21, 1940 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
						Set	A B			
5665	HD 93286	10 41.2	+60 38	I-12	Agfa II	010	9.3 17.2	20 56	21 56	3
5666	119476	13 38.4	+65 08	"	"	"	9.2 17.1	22 01	22 24	4
	"	"	"	"	"	"		22 21	22 36	
5667	128660	14 33.1	+43 16	"	"	"	9.1 17.1	22 41	23 17	1
5668	130917	14 45.7	+29 01	"	"	"	9.1 17.1	23 22	23 42	2
	"	"	"	"	"	"		23 42	24 56	
5669	157617	17 19.2	+08 56	"	"	"	9.1 17.2	00 32	00 58	3
5670	162570	17 46.6	+22 20	"	"	"	9.1 17.2	01 03	01 23	4
5671	166976	18 08.0	+12 22	"	"	"	9.1 17.1	01 27	01 47	1
5672	167944	18 12.4	+12 02	"	"	"	9.0 17.0	02 22	02 42	2
5673	173415	18 40.1	+47 29	"	"	"	9.0 17.0	03 17	03 57	3

Cloudy at sunset. Clearing briefly after dark, but clouded before I could find star. Clears again

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	2 50 W	+60 27	3	7.50	F0	1-2-1	K SA 13 Light clouds 21^{15}–21^{20}; 21^{40}–
	0 18 W	+65 07	3	5.70	A0	2-2	BSC Stt 5 Light clouds
	0 33 W	"	3	"	"		9
	0 20 W	+43 05	3	7.20	F8	1-2-1	KSA 34
	0 32 W	+28 51	3	5.72	A2	1-2-1	BSC Stt 5 * This plate numbered 5669 by
	46 W		3	"	"	1-2-1	9 mistake.
	0 45 E	+08 55	3	6.99	K2	1-2-1	P.S.C.
	0 48 E	+23 18	3	5.99	A3	1-2-1	"
	0 15 E	+12 22	3	7.55	F0	1-2-1	KSA. 86
	0 36 W	+12 03	3	7.55	F5	1-2-1	" "
	0 34 W	+47 30	3	6.95	A2	1-2-1	KSA 33

		MC	SC	SW	MT	ST
May 21	10	-11.1	+48 C	-13.4	+4^{m}.3	+0.2

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Date Tuesday, May 21-22, 1940 M-L Julian Day 22

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
-5674	HD 120766	13 42.7	-0 06	I-12	B	.030 L	+20°1	21 05	23 07	1	
-5675	150265	16 34 8.6	26	—	—	—	+20°1	23 24	01 24	2	
-5676	169753	18 21.1	-09 15	"	"	.015 L	+20°1	01 37	03 35	3	

Wednesday, May 22-23, 1940 H-L

Clear most of day; thin over at sunset; gradually fair to fair by first interval about 21:30, thin clouds & haze.

Thurs Hd. T Rain

Fri Hd - R Rain

Saturday M - N cloudy about 50 visitors

N gave lecture with slides, M observed

Ka Camp. obs
Pointer at 15.0
N.G.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 04 W	-0 20	1	9.50	A5	½-1-1½	Cirrus at light-hand end, start to find the image. Sky continues throughout with
0 43 W	+86 19	2		A0	½-1-½	light clouds dim image.
0 54 W	-09 14	2	7.47	B2	1-½-1	Clouds near end, sky thickening.

		MC	SC	SW	MT	ST
May 22	10	-10.8	+49.3	-15.9	+14.2	+0m.1
May 23	13 10	-11.8	+49.1	-20.3	+15.2	+0m.2
May 25	10	-11.0	+50.7	-17.3	+19.0	+0m.3
May 27	10	-11.4	+51.8	-37.7	-00s.2	-0m.2

Reset.

- area from Hamilton.
the Triangle.

Date Monday May 27-28 1940, M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
5676 F1							+18.7 B				
-5677	B.D. 47° 2134	14 17.3	+47 33	I - 12	Astra II	.035L	+18.6°	20 54	24 03		1
-5678	H.D. 169753	18 21.1	-09 15	"	"	.015L	+18.6	00 12	02 32		2
5679	" 180316	19 11.0	27 46	"	"	.010L	+18.6	02 42	03 34		3

NOTE → Pointer at 15.23

Aurora glow in N with occasional ray structure.
Found two long dirts on mirror, many small round ones.
Wiped water out of one pocket of centerpiece

Next dirt got off as it should several times.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	Time of visit.				12 9	focus fair; shortened from 26.15 to 26.11
1 46 W	47 22	2-1	9.0		½-½-½	hazy near horizon. Heavy ground fog near end of series.
0 14 W	-09 15	2-1	7.47	B_2	1-½-1	Haze, lgt. cl. cl.
0 27 W	27 50	2-1	6.64	B_8	1-2-1	Haze, lgt. cloud

		MC	SC	SW	MT	ST
May 28	14	-12.7	+50.7	-42.7	+01.0	-0.3 m
May 29	10	-11.7	+51.8	-44.9	+02.0	-0.3 m (-)
May 30	15	-11.7	+52.3	-52.7	+05.3	-0.1 m

Date Thursday, May 30-31, 1940 H-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Set	A B	33	33		
5680	HD 128000	14 29.4	+55.50	I-12	Agfa II	0.10	10.0 18.0	22	23	4	
5681	157978-9	17 21.5	+07 41	"	"	"		23 40	0 10	1	
5682	161178	17 39.0	+72 31	"	"	"	9.7 17.9	0 18	(0 40)	2	
	Sat.	June	1-2	B, Bs, M		A A V.S.O					
		Cloudy		Bs obtained this night							
				I obtained last night			5 minutes.				

Cloudy early evening; partly clearing from 21[30].
Thick haze came up again just after setting; delayed start.

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Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 17 W	+55 39	2-3	7.17	K5	1-2-1	B.C. Haze. Image but a faint mark of light.
1 04 W	+07 39	"	5.98	A0	2-2	BSC
	72 29		6.96	K0	1-2-1	BSC Thick haze all night Heavy cirrus with light thick cloud all night

	MC	SC	SW	MT ST
May 31 ie	−12.0	+53.0	−58.0	+6.0 0.0

Date Sunday, June 2-3 1940 B-Bs Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5683	H.D. 107274	12 14.9	49 32	12½	Astra II	.010	B 23.4	20 40	21 10	3	1 21 W
5684	119458	13 38.3	35 30	"	"	"	23.9	21 16	22 00	4	1 47 W
5685	148584	15 56.2	50 10	"	"	"	24.0	22 07	22 31	2	1 E
5686	145082	16 04.0	47 46	"	"	"	24.0	22 36	23 11	1	1 E
5687	145976	16 08.7	26 56	"	"	"	24.1	23 16	23 58	2	1 16 W
5688	164280	17:55.3	+36° 17	"	"	"	24.2	00 02	00		
5689	170, 920	18:26.8	-01° 04	"	"	"	23.8	01 23	01 53	3	
5690	175, 869	18:52.3	+02° 26	"	"	"	24.0	01 56	02 20	4	
5691	177, 595	19:00.3	+27° 10	"	"	"	24.0	02 24	03 00	1	

Pointer at 19.0 ; 19.2

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 21 W	49 18	1-2	6.63	K2	1-2-1	B.S. Heat does not go off. Have to operate switch by hand. [See also May 11-Er]
0 48 W	35 17	3-2	6.98	K0	1-2-1	B.S.
0 51 E	50 04	2	6.18	F0	1-2-1	B.S.
0 27 E	47 08	2	6.58	A0	1-2-1	K.S.A. 35
0 16 W	26 49	2	6.71	F2	1-2-1	K.S.A. 60
0 [illegible] E	+36 15	1-2	6.92	K0	1-2-1	B S
0 07 E	-01 02	1	5.87	A2	1-2-1	B S Delay in getting * on slit. (Wing guide — finding, lost. Galvo. needle stuck at warm position for several minutes, finally noted temp. down to 25°?, snapped into
0 05 E	+02 28	1	5.60	B8	1-2-1	B S and needle swung sharply to right 6 minutes heating
1 07 W	+27 12	1	7.03	B9	1-2-1	K S A 63 ← Heat control OK during last exposure

Heat control given once more and seems to work OK

Logwork

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Date Tuesday June 3-4, 1946 M-B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature F	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5692	HD. 138906	15 26.8	+2 05	I-12	Ast. II	.010	+25.0	21 03	21 57	2	5 SE
-5693	HD. 150265	16 34.8	+16 26	—	—	.020L	+24.9	22 05	24 05	3	0 15W
5694	169753	18 21.1	-09 15	—	—	.015L	+25.0	00 22	02 30	4	4.W-
-5695	187949	19 47.5	-14 51	—	—	.010L	+24.9	02 37	03 49	1	2W-

Pointing at 1952

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 58E	61 56	2	6.79	A0	1-2-1	
	0 15W	86 20	2-3	8.61	A0	½-1-½	Clouds in N. Legs now longer.
	0 40W	-09 15	2	7.5	B2	1-1-1	
	0 32W	-14 46	2-3	6.42	A2	1-2-1	

	MC	SC	SW	MT	ST
June + 13	-08.7	+53.6	-1m14s.2 Retarded	+12.4	0m.0

Date Tuesday June 4-5, 1940 H.S.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
		1935								
5696	NGC 5053	13 13.3	+18 03	Newtonian	Astra II			22 03	22 38	2
5697	" 5466	14 08.8	+28 49	"	"			22 50	23 20	1
5698	" 6205	16 39.3	+36 35	"	"			23 32	23 42	2
5699	" 6218	16 43.8	-01 50	"	"			23 52	00 00	1
5700	" 6259	16 53.6	-04 00	"	"			00 03	00 11	2
5701	" 6366	17 24.1	-05 01	"	"			00 17	00 42	1
5702	" 6402	17 34.1	-03 12	"	"			00 53	01 33	2
5703	" 6779	19 14.0	+30 03	"	"			01 40	02 00	1
5704	" 6760	19 17.7	+00 55	"	"			02 10	02 40	2
5705	" 6779	19 14	+30 03	"	"			02 55	03 30	1

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
		Poor			Hy Hazy, light clouds delayed starting.
		"			Sa
					Hazy guid Haze increased clouds, cloud and atm gave Sharp guid Good— track from 3°2 — . "
a very hazy night throughout. Difficult to find guide stars, and to guide because of changing transparency.					
					MC SC SW MT ST Jun. 5 10 −07·4 +54·3 −102·7 +12·4^s −0·1^m

Date Wednesday (June 5-6/40 H.S.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
		1935									
5706	NGC 5904	15 15.1	+2 20	Newtonian	Astra II			21 25	21 35		1
5707	" 5053	13 13.3	+18 03	"	"			21 43	21 03		2
5708	" 6205	16 39.3	+36 35	"	"			22 14	22 20		1
5709	" 5466	14 02.8	+28 49	"	"			22 27	22 52		2
5710	" 5053	13 13.3	+18 03	"	"			22 56	23 21		1
5711	" 6218	16 43.8	-01 50	"	"			23 33	23 41		2
5712	" 6254	16 53.6	-04 00	"	"			23 45	23 53		1
5713	" 6366	17 24.1	-05 01	"	"			23 59	00 24		2
5714	" 6779	19 14.0	+30 03	"	"			00 29	00 49		1
5715	[illegible]	17 [illegible]	-04 34	"	"			00 59	01 29		2
5716	" 6779	19 14.0	+30 03	"	"			01 35	01 55		1
5717	" 6402	17 34.1	-03 12	"	"			02 02	02 42		2
5718	" 6779	19 14.0	+30 03	"	"			02 51	03 11		1
5719	" 6205	16 39.3	+36 35	"	"			03 15	03 20		2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
			Unsteady Vile			Strong breeze
						Bright aurora!
						Aurora extending south of zenith
						Object not visible. Very bright aurora.
						unguided
						MC SC MT ST
						Jun. 6 −05.3 +60.9 +13.s0 −0.m1

Date Thursday June 6-7/40 H.S.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
		1935									
5720	NGC 5904	15 15.1	+02 20	Newtonian	Astra II			21 24	21 34	2	0[m] E
5721	" 5053	13 13.3	+18 03	"	"			21 42	22 07	1	[illegible] W
5722	" 6205	16 39.3	+36 35	"	"			22 12	22 18	2	[illegible] E
5723	" "	"	"	"	"			22 21	22 29	1	[illegible] E
	" 5466	14 02.8	+28 49	"	"						
5724	" 6205	16 39.3	+36 35	"	"			23 29	23 [illegible]	2	[illegible] E
5725	" 6218	16 43.8	-01 50	"	"			23 39	23 49	1	0[m] E
5726	" 6254	16 53.6	-04 00	"	"			23 55	00 [illegible]	2	[illegible] E
5727	" 6779	19 14.0	+30 03	"	"			00 15	00 [illegible]	1	[illegible] E
5728	" 6402	17 34.1	-03 12	"	"			01 25	02 00	2	[illegible] W
5729	" "	"	"	"	"			02 01	02 [illegible]	1	[illegible] W
5730	" 6366	17 24.1	-05 01	"	"			02 41	03 01	2	[illegible] W
5731	" 6779	19 14.0	+30 03	"	"			03 05	03 16	1	47 W
	Fri June 7-8/40			Hd-L Rain; occasionally partly clear with two							Hour Angle 22.3
	Sat June 8-9/40			showers. Showed T.el to about							[illegible] min
	Sun June 9-10/40			B-L Cloudy Sunday - cloudy with rain.							14.3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0^{37} E						Sa Zenith Clouds low on horizon, slight haze.
	1^{35} W						5 Last clouds passing. Light Aurora!
	1^{37} E						1 Haze
	1^{26} E						5 Clouds
							1 Waited for sky to clear off
	0^{20} E						5 Sky generally hazy.
	0^{11} E						5
	0^{05} E						Hy Zenith
	1^{50} E						5 Sky clear except for haze on horizon
	1^{11} W						1 Waiting for clouds to pass.
	1^{47} W						2
	2^{22} W						2
	0^{47} W						2

		NS	SC	SW	MT	ST
Jun. 7	10	-04.0	+01.0 adw 1m added 2.0 weight	-1 07.9	+13.0	+0.1
Jun. 8	10	-03.0	+03.5	-1 07.0	+14.0	+0.1

Range 22.30 — 00.00

No visitors.

Wed June 12-13 Hd Cloudy

Date Thursday, June 13-14, 1940 H - B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
								21.7?			
5732	4D 100054	11 25.7	+60 15	I-12	Astro II	set 010	A 13.4 B 22.7	21 00	22 20		2
5733	140084	15 36.7	+76 46	"	"	"	13.2 21.7	22 26	23 36		3
5734	158996	17 27.2	+80 13	"	"	"	21.7	23 47	00 9		4
5735	163, 466	17 51.2	+60 25	"	"	"	21.7	00 38	01 22		1
5736	178, 624	19 04.3	+59 05	"	"	"	21.7	01 28	02 38		2
5737	181, 564	19 15.9	+63 02	"	"	"	21.6	02 47	03 47		3
			Friday June 14 - M				Change Cover To B				
5737 F.						.010	+16.1		setting	1	2
	sky spectrum			I-25	Astro II	.005		15 2	13		
	"							30	5		
								60	7		
								140	9		

Some trouble finding star in 74 mod, due to bright NW sky – some haze. Focus fair out, but slight appreciable improvement after change to new focus. Temp at 17.4.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							MC SC SW MT$_s$ ST$_m$
							Jun. 10 12 −00·7 +38·0 −102·8 +15·7 +0·0
							Jun. 11 10 −00·8 +34·2 − 53·9 +16·2 +0·0
							Jun. 12 10 +00·6 +49·7? −58·3 +16·6 −0·0
							Jun 13 10 +00·4 +53·3 −56·5 +16·0 +0·0
	4^{04} W	+60° 02	0	7*	A5	1-2-1	South bright guiding star [limit HA about 4½ hrs W]
	1 12 W	+76 39	0-1	7.58	F2	1-2-1	Zone 6
	17 W	+71 11	1	6.98	K2	1-2-1	B-C RA 140 minutes ground. Start at alt 17°35'
	0^{48} W	+60° 19	1	6.82	A2	1-2-1	K S A 16 [Humidity recorder not running]
	0 W	+59° 26	1-2	7.52	A2	1-2-1	" 17
	1^{20} W	+63° 02	1-2	7.33	F5	1-2-1	" " 17 Will replace Dec Clamp + DM Focus
	25"	12" was at focus				26.12	tilt 20.32
	Set 25" focus at 2360						tilt 23·15, temp. +6°·1 C.
	Focus satisfactory					5/4	
							MC$_s$ SC$_s$ SW MT$_s$ ST$_m$
							Jun. 14 10 +0·2 +00·6 Add 1^m added wt. −54·9 +16·2 +0·1

Date Friday, Jan. 14 - 11 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.	Ot	Hour Angle End
5737 F_2				I- 25	Astra II	.005	+16°1			1 2	
	sky —							exp. 30 20	setting	3	
								30		5	
								45		7 1/2	
								70		8.5 10	
5737 T_1	sky			—	Astra II	.005	+16°1	exp. 6 12 25	1 5 9	1	
5737 T_2	"			—	—	—		6 12 24	—	2	
5737 T_3	"			—	—	—		—	—	3	
5737 T_4	"			—	—	—		—	—	4	
5737 T_5	"			—	Procam	—		exp. 40 240	2 8	1	
5737 T_6	"			—	E 33	—		exp. 20 60	2 3	2	
5737 T_7	"			—	—	—		—	—	3	
5737 T_8	"			—	—	—		—	—	4	

Fri June 14-15 14d - 13 Steadily thickening from

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
						10 8	set focus to 23.45. mirror stopped down to 24 inches
						4	—
						—	
						30	
						14	
						—	
						—	

correct. Few stars visible at midnight - Kodak Lake.

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Date Saturday June 15-16, 1940, M-B Bs Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
				Set 12"	to	focus		26.12			
							B				
-5738	H.D. 169753	18 21.1	-09 15	I-12	Eastman II	.015 L	+21.1°	23 08	01 30		1
-5739	H.D. 187999	19 +25	-14 51	"	"	.010 L	+21.0	01 ~~35~~	03 01		4
5740	H.D. 183339	19 24.0	57 49	"	"	.010 L	+21.4	03 08	03 44		2

About 70 visitors M showed moon and M 3 with 74" moon with finder. Bs showed ♀ ♀ ♂ with four nick Cooks.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							MC SC SW MT ST
							Jun. 15 10 +00.4 -02.1 -53.1 +17^{s}.3 -0^{m}.0
	Changed over F 12",					25"	focus best at 23.40 tilt at 23.15
	T$_0$	20.32					Pointer at 17.22
0^{h}33	0 27 W	-9 15	1	7.47	B2	½-1-1½	
	0 32 W	-14 45	1	6.42	A2	1-2-1	(Cow in setting ck.)
0^{h}50	0 42 W	57 55	2	6.41	B8	1-2-1	K.S.A. 17

Date Sunday June 16-17, 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle East
5741	H.D. 107274	12 14.9	49 32	I-12½	Astro II	.010	B +22.2	20 52	21 46	4
5742	143584	15 56.7	50 10	"	"	"	+22.1	21 51	22 23	1
5743	150483	16 36.2	12 35	"	"	"	+22.0	22 28	22 58	2
5744	164280	17 55.3	36 17	"	"	"	+22.1	23 05	00 19	4
5745	173936	18 43.0	41 20	"	"	"	+22.3	00 25	00 49	3
5746	186377	19 38.9	32 11	"	"	"	+22.1	00 55	01 27	2
5747	177983	19 01.8	15 42	"	"	"	+22.3	01 34	03 24	1

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Pt. Sturgeon og Obs.

Binter at 17.9

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 43 W	49 16	1	6.63 K2	1-2-1	B.S. Few thin clouds.
	0 12 E	50 02	1	6.18 F0	1-2-1	B.S. Starlight thin - can't find [illegible]
	0 16 E	12 30	1	6.04 A2	1-2-1	B.S.
	0 14 E	36 18	1	6.98 K0	1-2-1	B.S. Haze coming in from S.
	0 31 E	41 22	1	5.56 B9	1-2-1	B.S.
	0 50 E	32 17	1	5.95 A2	1-2-1	B.S.
	1 47 W	15 47	1	7.38 A5	1-2-1	N.S.A.B.J. More Haze

		MC	S.C.	SW.	MT 5	ST m
Jun. 17	10	-01.6	+01.2	-588	+01.7	+0.0

Date Monday, June 17-18, 1940 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
							B				
5748	HD 160486	17 35.1	+43 40	I-12	Agfa II	010	24.3	22 25	23 25	2	
5749	157978-9	17 21.5	+ 07 41	"	"	"	24.3	23 ~~39~~ 50	0 12	3	
5750	162570	17 46.6	+ 22 20	"	"	"	24.3	0 15	0 37	4	
5751	164064	17 54.3	- 04 48	"	"	"	24.4	0 41	1 16	1	
5752	183227	19 23.4	+ 02 43	"	"	"	24.3	1 36	2 06	2	
5753	185037	19 32.2	+ 36 43				24.2	2 10	2 32	3	
5754	186568	19 40.1	+ 33 55				24.3	2 34	3 04	4	

Cloudy early evening. Hazy clearing after dark.

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 16 E	+43 37	2	7.20	A2	1-2-1	KSA 37 Light clouds intermittently.
	0 18 W	+07 38	2	5.98	A-G	1-2-1	BSC Lid not down at first. Around 0^{30} —
	0 16 W		2	5.99	A3	1-2-1	"
	0 ^{52} W	-04 50	2	6.98	K0	1-2-1	" Clouds 0^{52} — Light HA.
	0 ^{09} "	+12 49	3	5.90	B9	2-2	" Thick - delay 1 to 1 TH time.
	0 ^{36} W)	+36 48	3	5.84	F9	2-2	" Haze - clouds
	0 ^{51} W	+34 00	3-4	5.95	A0	2-2	" Haze-
							Very hazy, and progressively worse.
		"					

Date Tuesday, June 18-19, 1940 - L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5755	H.D. 140227	15 37.4	69 36	I-12½	Astra II	3et .010	B 24.2	20 58	21 28	1	0 ^m E
5756	" 154099	16 58.3	73 17	"	"	"	24.1	21 44	22 34	2	0 ^m E
5757	" 154528	17 00.9	77 48	"	"	"	24.0	22 44	23 52	1	0 ^m W

Pointg. set at 19.1

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
0 38 E	69 28	2	6.86	Ko	1-2-1	B.S.C 9 Hd. h.a.v. light cloud.
0 52 E	73 13	2	6.38	A5	1-2-1	K.S.A. 6 Hd. start delayed by clouds. clouds
0 24 W	77 44	2	6.66	Ao	1-2-1	" " M. haze, light cloud, still sky solid at 23.52 at 0.3 sky still much little hope of it clearing. El. lightning on SW. W and NW horizon.
						Jun. 19 10 MC -03.5 SC -03.3 SW -51.9 HT_s -00.2 ST_m +0.1

Date Wednesday June 19-20, 1940 – L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5758	H.D. 140232	15 37.4	18 47	T = 12½	Astra II	Set .010	B 19.5	21 05	21 39	3	
5759	" 141378	15 43.7	-03 31	"	"	"	19.5	21 46	22 16	4	
5760	" 159870	17 31.9	57 38	"	"	"	19.5	22 26	23 16	1	
5761	" 176669	18 56.3	42 52	"	"	"	19.5	23 22	01 12	2	
5762	" 177983	19 01.8	15 42	"	"	"	19.5	C1 15	02 45	3	
5763	" 218868	21 07.4	62 53	"	"	"	19.5	C2 52	03 34	4	
		1940 June 20-21		Thursday - B5			Mostly cloud,				

Count set at 15.45

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	0 [illegible] E	18 40	0	5.88	A_3	1-2-1	BSC 9 fd. - Seeing vile!
	0 05 W	-03 41	0	5.69	A_3	1-2-1	" 9 fd
	0 41 E	37 37	0	6.51	F_2	1-2-1	KS.A.16 9 fd - Seeing improving
	0 10 E	42 55	0-1	7.49	B_8	1-2-1	KS.A.38 9 fd
	1 17 W	15 45	0-1	7.33	A_5	1-2-1	KSA 87 9 fd
	0 06 W	63 60	1	6.45	B_8	1-2-1	KS 1E 9 fd
							Stay here continues all night
							S.T.W 0.0

Date Friday, June 21-22, 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
5764	H.D. 145082	16 04.0	41 46	I-12½	Astra II	.010	+17.0	20 53	21 47	2
5765	141378	15 43.7	-03 31	"	"	"	+16.6	21 56	22 24	1
5766	156891	17 15.0	38 55	"	"	"	+16.7	22 32	23 56	2
5767	160781	17 36.7	06 22	"	"	"	+16.9	00 01	01 19	1
5768	184010	19 27.2	26 29	"	"	"	+16.9	01 25	02 45	2
5769	199611	20 53.3	50 20	"	"	"	+17.0	02 51	(03 23)	1

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Pointer at 138

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2 [illegible]	0 33 E	47 39	1	6.58	A0	1-2-1	K.S.A. 35 Y Cirrus clouds.
22 14	0 22 W	-03 37	1-0	5.69	A3	1-2-1	B.S. Hd Trop. dup. Lost poor point contact. Reset 9h
21 53	0 24 N	38 51	1	6.98	K0	1-2-1	B.S. H More clouds.
0 1	1 25 W	06 20	1	6.98	K0	1-2-1	B.S. Hd
23 8	1 00 N	26 30	1	6.96	K0	1-2-1	B.S. Hd
2 [illegible]	0 15 W	50 30	1-2	6.08	F0	1-2-1	B.S. Y Lid broken clouds. Omega Cntl:

Date Saturday June 22-23, 1940 - H-B Julian Day 99 N

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
5770	HD 157978	17 21.5	+07 41	I-12	Astro II	Set 010	B 17.0	22 13	22 39	
	"							22 39	22 55	
5771	162570	17 46.6	+22 20	"	"	"		22 59	23 19	1
5772	164064	17 54.3	-04 48	"	"	"	17.0	23 24	0 01	2
5773	172,883	18: 37.5	+52° 06	"	"	"	17.0	00 12	00 27	4
5774	190,781	20:01.6	+47° 57	"	"	"	15.9	02 14	02 40	3
5775	204,428	21:23.4	+52° 28	"	"	"	15.9	03 03	03 11	1

Monday, June 24-25, 1940 H

Closed 11[15], but filled in again very quickly. Partly cloudy
and Turn. Started 2 a.m. Bright auroras 11[15]-12[00]

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Partly cloudy for invitation (about 50%). Heard end of talk. TT 3:00, H13 with 74-in; W about 4:30 with clips & Lyra & Vega. Wind

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 56 E	+07 38	1	5.98	A-G	1-2-1	BSC. Some light clouds
0 40 E	"		"	"	2-2	" " "
0 41 E	+22 28	2	5.99	A3	1-2-1	BSC
0 07 E	-04 50	2	6.98	K0	1-2-1	BSC Light clouds last fourth of interval
0 11 E	+52 18	1-2	5.83	B9	1-2-1	" Mostly cloudy at closing. Pointer 14.0
0 26 W	+48°04	1-2	5.98	A0	1-2-1	" Few light clouds, but many at end. Reset pointer at 13.2
0 05 E	+52°36	1+	5.90	B8	1-2-1	" " " Thick at end

Date Tuesday, June 25-26, 1940 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						S.T	A B				
5776	HD 130917	14 45.7	+29 01	I-12	Astr. II	010	8.2 16.8	21 54	22 24	2	
5777	132772	14 55.8	+39 40	"	"	"	8.1 16.6	22 35	23 05	3	

Clouds rolling in; [illegible] from W

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Ending Times E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 36 W	+28 51	2	5.72	A2	1-2-1	BSC : Light clouds [illegible]
	2 06 W	+39 29	2	5.92	F2	1-2-1	" : Clouds - the [illegible]
							Stiff thick 0 45

		MC	SC	SW	MT	ST
Jun. 26	10	-08.9	-08.5	-43.2	+17^{s}.2	+0^{m}.3
Jun. 27	13	-14.1	-19.9	-42.7	+18^{s}.2	+0^{m}.3

Date 1940 June 27-28 Thursday **Julian Day** 9508

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5778	HD 140 117	15:36.9	+58°14	1-12	Astro II	Set .010	18.4	20 56	22 16	4	
5779	154 099	16:58.3	+73°17	"	"	"	18.1	22 21	23 49	1	
5780	154 513	17:00.9	+72°48	"	"	"	18.0	22 5	23 21	2	
5781	163 466	17 51.2	+60°25	"	"	"	18.0	23 27	00 16	3	
5782	177, 152	18.58.4	+44°14	"	"	"	17.9	00 17	01 39	4	
5783	181 171	19:34.6	+41°59	"	"	"	17.9	01 42	03 20	1	
5784	191 145	20:41.6	+40°3				17.9	02 45	04 [illegible]	2	

Visibility cut at 14.9

Ending Time E.S.T.	Hour Angle End	Declination	Seeing (averages)	Ptg. Mag.			REMARKS
	0^{45} W	+58° 06	1-2	7.46	K$_5$	1-2-1	KSA 15 (H) During setting, guide cradle became stuck at left de. After freeing, reset slide-wire contact at 15.0 gal. div.
	0° 01 E	+73° 12	2-3	6.38	A5	1-2-1	" 6 (H)
	0^{32} W	+77° 42	2-3	6.66	A0	1-2-1	" 6 (M)
	0^{31} W	+60° 20	2	6.88	A2	1-2-1	" 16 (H)
	0^{41} W	+44° 18	1-2	7.0	B9	1-2-1	" 38 (M) Some light clouds about, in east
	0^{54} W	+42° 04	2	6.5	A-	1-2-1	" 39 (V)
	1 W	+41° 38	2	7.0	B9	1-2-1	" 41 (M) Brighter star, to left on slit

		MC	SC	SW	MT	ST
Jun. 28	10	-11.1	-18.6	-43.0	+19.4	+0.3

Date 1940 June 28-29, Friday B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5785	H.D. 137071	15 18 9	39 56	I-12½	Astra II	.010	B +15.5	20 50	(21 26)	6 [illegible]

Pointer at 139

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2	(0 18 W	39 47	2	7.03	K5	1-3	B.S.C. Clouds formed shortly after beginning Closed at 21:30

		MC	SC	JW	MT	ST
Jun. 29	20	-12.9	-26.1		+16.0	+0.1

Date Saturday, June 29-30, 1940 H.N.B.S. Julian Day 9810

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Slit	A B				
5786	HD 158996	17 27.2	+81 13	I-12	Agfa. II	010	17.1	22 26	22 58	4	
5787	" 166976	18 08.0	+12 22	"	"	"	8.4 17.1	23 09	00 [illegible]	1	
5788	162.944	18 12.4	+12° 02	"	"	"	17.0	00 [illegible]	01 43	2	
5789	193 579	20 15.8	+17° 29	"	"	"	17.0	01 46	02 46	3	
5790	194.668	20.21.9	+17° 01	"	"	"	16.9	02 48	3 48	4	

about 25 visitors; change + light-clouds: cleared
π Bootis; seeing rather poor at first, improving.
Temp set 0 14.4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2:	(0 11 E)	+90 11	2	6.98	K2	1-2-1	DSC. ← K2 right, run off on 5786; not next plate pair; pull pr #727.
	0 34 W	+12 21	1	7.55	F0	1-2-1	KSA 96 Auroral arch below pole
	1 45 W	+12° 12	1-2	7.55	F5	1-2-1	" 86 Bright aurora along celestial equator in west
	0 44 W	+17° 36	1-2	7.22	K5	1-2-1	" 88
	1 41 W	+17° 06	1-2	7.17	K0	1-2-1	" 88 Strong west breeze all night

Date Sunday, June 30 - July 1, 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Mid
5791	H.D. 149009	16 26.9	22 25	I - 12½	Astro II	010	B +17.2	20 53	22 15	1	
5792	160054	17 32.8	30 51	"	"	"	+17.0	22 20	22 49	-	
5793	160781	17 36.7	06 22	"	"	"	+17.1	22 46	23 [illegible]	2	
5794	170920	18 26.8	-01 04	"	"	"	+17.0	23 55	00 15	2	
5795	177459	18 59.7	17 24	"	"	"	+17.0	00 21	01 23	9	
5796	178512	19 03.8	12 57	"	"	"	+17.0	01 29	02 24	1	
5797	190338	19 59.4	16 51	"	"	"	+17.0	02 30	03 28	2	

Winter 14.2

Reading Time EST	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 03 E	22 20	1	7.14	K5	1-2-1	B.S. H
	0 25 E	30 50	1	5.82	A2	1-2-1	B.S. H
	0 26 W	06 21	1-2	6.98	K0	1-2-1	B.S. H
	0 06 W	-01 02	1	5.87	A2	1-2-1	B.S. Y
	00 41 W	17 28	1-2	7.05	F5	1-2-1	K.S.A. 87 Y
	01 38 W	13 80	1-2	6.92	B8	1-2-1	K.S.A. 87 M
	01 46 W	16 58	1-2	6.89	A2	1-2-1	K.S.A. 68 H

Date 1950 July 1-2 Monday Bs Julian Day 9812

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
5798	(+) 145,976	16:08.7	+26°56	1-12	Astra II	set .010	+18.1	20 54	21 44	4
5799	~~152,224~~	~~16 47.0~~	~~+31°44~~	-	-	✓ -	+18.1	21 52		1
5800	161.959	17 43.4	+22° 52	-	-	✓ -	+18.1		00 48	2
5801	180,844	19.13.0	+32°57	-	-	✓ -	+18.0	00 51	01 51	3
5802	187.64,	19.45.9	+28°12	-	-	✓ -	+18.1	01 54	02 30	4
5803	194.638	20.21.9	+17°01	-	-	✓ -		02 33	( )	1

Pictor set 15.1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0^{03} E	+26°51	1	6.71	F2	1-2-1	KSA 60 (V)
	0^{17} W	+32°40	1-2	7.26	K0	1-2-	- 61 (Y) RA Circle had broken sh. ft. ✕ WRONG STAR.
	1^{26} W	+28°51	1-2	7.36	A0	1-2-1	- 61 (H)
	1^{09} W	+33°03	1-2	6.89	B5	1-2-1	— 63 (M) Some light clouds. Thickening in east
	1^{06} W	+28°15	1-2	6.24	B8	1-2-1	— 64 (H)
	(0^{56} W)	+17°06	1-2	7.17	K0	1-2-	— 82 (H) (Lunch 0^{57})

July 2, 10

MC	SC	SW	MT	ST
-16ᵈ	-39.2	+17.5	+23	+0ᵐ.4

✕ HD 150344 16 38.3
+32 37
8 1. 3.8 A5
(9 U. 5.7 V)

Date Tuesday July 2-3/40 S.H.L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
		1935								
5804	NGC 3994	13 15.1	+02 20	Newtonian	Astro II			21 30	21 35	2
5805	" 6205	16 39.3	+36 35	"	"			21 43	21 49	1
5806	" 5466	14 02.8	+28 49	"	"			21 55	22 23	2
5807	" 6205	16 39.3	+36 35	"	"			22 30	22 35	1
5808	" 6402	17 34.1	-03 12	"	"			22 50	23 25	2
5809	" 6779	19 14.0	+30 03	"	"			23 32	23 36	1
5810	" 6366	17 24.1	-05 01	"	"			23 59	00 04	2
	K.S.A. 109	17 41.8	-00 11	"	"			00 27	00 32	
5811	NGC 6779	19 14.0	+30 03	"	"			01 01	01 21	1
5812	" 6402	17 34.1	-03 12	"	"			01 38	01 46	2
5813	" 6205	16 39.3	+36 35	"	"			02 06	02 20	1
5814	" 7089	21 29.9	-01 07	"	"			02 33	02 43	2
5815	" 6779	19 14.0	+30 03	"	"			02 50	03 10	1

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 49 W					S guide	Trees in S Bowl
0 24 E						
2 47 W		Fair				
0 23 W						← Reference
0 17 W					H guide	
0 55 E					S	
1 27 W		Fair?				
1 37 W		Leaving				← Ref. set
0 35 W						
2 49 W						Shut off by 1 hr.
4 08 W						Clouds. Shut. close for 0 hr + 4 min
0 20 E						
2 24 W						M.C. S.C. SW MT ST
						July 3 10 ~~+25.5~~ -15.5 -42.6 +20.0 +25.5 +0.7

Date Wednesday July 3-4/40 S·H·L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Barrings Out
5816	NGC 6205	1935 16 39.3	+36 35	Newtonian	Astra II			21 21	21 27	1	
5817	" 5904	15 15.1	+02 20	"	"			21 33	21 41	2	
5818	" 5466	14 02.8	+28 49	"	"			21 55	22 20	1	
5819	" 6205	16 39.3	+36 35	"	"			22 26	22 31	2	
5820	" 6402	17 34.1	-03 12	"	"			22 42	23 [illegible]	1	
5821	" 6779	19 14.0	+30 03	"	"			23 24	23 44	2	
5822	" 6218	16 43.8	-01 50	"	"			23 51	23 [illegible]	1	
5823	" 6254	16 53.6	-04 00	"	"			00 00	00 [illegible]	2	
5824	" 6366	17 24.1	-05 01	"	"			00 16	00 [illegible]	1	
	K.S.A 109	17 41.8	-00 11	"	"			00 41	01 01		
5825	NGC 6402	17 34.1	-03 12	"	"			01 04	01 39	2	
5826	" 6779	19 14.0	+30 03	"	"			01 46	02 06	1	
5827	" 6981	20 49.5	-12 48	"	"			02 12	02 37	2	
5828	" 6205	16 39.3	+36 35	"	"			02 43	02 [illegible]	1	
5829	" 6779	19 14.0	+30 03	"	"			02 56	03 11	2	
5830	" 7089	21 29.9	-01 07	"	Eastman 40			03 15	03 [illegible]	1	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 42 E						
	0 26 W						
	2 48 W						
	0 22 W						← Refrocused
	0 13 W						
	0 59 E						
	1 44 W						very getting worse, unsteady.
	1 43 W						← Refrocused
	1 45 W						
	1 30 W						
	1 36 W						
	1 24 W						MC SC SW MT ST
	1 19 W						July 4 10 -17 -47 +21.9 +28 +0.3
	4 41 W						
	2 29 W						
	2 42 W						

Date Thursday July 4-5/40 S·H·L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
5831	N.G.C. 6205	1935 16 39.3	+36 35	Newtonian	Eastman 40			21 21	21 27	1
5832	" 5904	15 15.1	+02 20	"	"			21 34	21 42	2
5833	" 5466	14 02.8	+28 49	"	Astra II			21 51	22 16	1
5834	" 6205	16 39.3	+36 35	"	Eastman 40			22 21	22 27	2
5835	" 6402	17 34.1	-03 12	"	Astra II			22 33	22 43	1
5836	" "	"	"	"	"			23 38	00 13	1
5837	" 6779	19 14.0	+30 03	"	Eastman 40			00 22	(	

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 38 E				
	1 01 W				
	2 48 W				Last good light observed at 2h 08m after
	0 23 W				
	0 15 E				Sky cloudy, closed
	1 14 W				< Reopened
					Sky to cloudy, closed at 4h 30m after the meridian
					A bad night

		MC	SC	SW	MT	ST
July 5	10	-17s	-52s	+21s	+30s	+0m.5

Date Friday July 5-6/35 S.H.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
		1935								
5838	N.G.C. 6205	16 39.3	+36 35	Newtonian	Eastman 40			21 18	21 24 1	
5839	" 5904	15 15.1	+02 20	"	"			21 31	21 39 2	
5840	" 6402	17 34.1	-03 12	"	Astra II			21 45	22 20 1	
5841	" 6205	16 39.3	+36 35	"	Eastman 40			22 26	22 32 2	
5842	" 6779	19 14.0	+30 03	"	"			22 36	22 56 1	
5843	" 6402	17 34.1	-03 12	"	Astra II			23 08	23 43 2	
5844	" 6218	16 43.8	-01 50	"	Eastman 40			23 50	00 16 1	
5845	" 6254	16 33.6	-04 00	"	"			00 01	00 07 2	
5846	" 6402	17 34.1	-03 12	"	Astra II			00 10	00 45 1	
5847	" 6366	17 24.1	-05 01	"	"			00 48	01 08 2	
5848	" 6402	17 34.1	-03 12	"	"			01 18	01 53 1	
5849	" 6981	20 49.5	-12 48	"	"			01 58	02 23 2	
5850	" 7089	21 29.9	-01 07	"	Eastman 40			02 29	02 39 1	
5851	" 6205	16 39.3	+36 35	"	"			02 43	02 53 2	
5852	" 6779	19 14.0	+30 03	"	Astra II			02 57	03 17 1	

Evening Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 37 E				S good
	1 02 W				
	0 35 E				
	0 38 W				
	1 39 E				
	0 47 W				Eyepiece focused & good vision at 23.° sight through field of eyepiece
	1 51 W				S good
	1 58 W				
	1 50 W				
	2 32 W				About the best seeing
	2 36 W				was expressed as a
	0 12 W				Newtonian sight line
	0 11 E				
	4 53 W				
	2 43 W				
					L + H Night end + Caps at Lens.

Date Sat July 6-7/40 HE -11.5 Julian Day 917

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
5853	HD158013	17 21.7	57 05	I-12	auto	010	16.2 24.6	22 32	23 08	2	29m 4
5854	HD159870	17 31.9	57 38	"	"	"	15.8	23 11	23 41	2	4 52
5855	" 166868	18 07.5	29 39	"	"	✓ -	16.0 24.7	23 47	01 17	4	"
5856	196, 216	20: 30.8	+43° 01	-	-	✓ -	-24.6	01 20	02 40	1	0
5857	214 24	21 36.7	+44° 29	-	-	✓ -	+24°6	02 44	03 54	2	1 5

About 60 visitors showed & Here, M13 with 74". RJN showed β Cyg, etc with 4".

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS					
					1-2-1	MC	SC	SW	MT	ST
	28m W	57 04	1	6.61 A_2	July 6 10	-17s	-57s	+20s	+31s	+0m5
	W 52	57 35	1	6.51 F_2	1-2-1					
	1° W	29 39	2	7.52 A_2	1-2-1	KS1 62				
	0° W	+43° 06	2	7.38 F_2	1-2-1	- 40				
	0° E	+40° 41	2+	7.26 A_5	1-2-1	- 42				

Date Sunday July 7-8, 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5858	H.D. 165398	18 00.7	27 06	I-12½	Astra II	.010	B +25.6	20 50	21 36	4
5859	168440	18 14.6	12 30	"	"	"	+25.3	21 42	22 42	3
5860	176669	18 56.3	42 52	"	"	"	+25.4	22 49	23 51	2
5861	177931	19 01.6	45 45	"	"	"	+25.3	23 55	00 59	1
5862	179586	19 08.1	17 50	"	"	"	+25.3	00 37	01 58	4
5863	192684	20 11.0	32 33	"	"	"	+25.0	02 03	02 37	2
5864	196687	20 33.9	42 38	"	"	"	+25.3	02 44	(03 10)	3
		1940 Jul. 8	Monday		Bs					
5864 F1	Outside H.D. base			I-12	Astra II	set .010	+23.3	focus 26.11	1st pl 2:3[illegible]	
5864 F2	" "	"		"	"	"	+24.0	26.14	2:31	
5864 F3	" "	"				"	+24.6	26.05 26.26 26.14	2:31	
	Visible	H. system	about	17h	- ra	has	broken	in	all	west

Pointer at 20.0

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 40 E	27 07	2-3	7.22 Ac	1-2-1 KSA. 62 (M)
	0 47 E	12 30	2-3	7.29 B8	1-2-1 " 86 (Hl)
	0 20 E	42 54	2-3	7.49 B8	1-2-1 " 38 (M)
	0 14 W	45 50	2-3	6.80 Bq	1-2-1 " 38 (Hd)
	1 36 W	17 53	2	7.50 Fo	1-2-1 " 87 (K)
	1 14 W	32 42	2-3-1	6.69 Bq	1-2-1 " 64 (M) Lacey variable
	(1 22 W)	42 46	2	7.06 Ao	1-2-1 " 40 (Hd) Clouds 7.05
					July 8 10 MC -19s SC -06s SW +22s MT +31s ST +0m.6
					2 filters 8-10
					" 8-10
					9-12
Seeing 2 5 9					
	windows of dome + flowed down stairs.				

Date 1940 Jul 8-9 Mond. D3 **Julian Day** 9819

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
5865	H D 143 584	15 59.2	+50° 10	1-12	Astra T	10+ .010	+24°3	21 39	23		11
5866	150870	17 31.9	+57° 36	—	—	—	+24.2	22 35			2
5867	147 926	18 43.1	+41° 22	—	—	—	+24.1	00 12	26		3
5868	148 [illegible]	19 48.3	+41° 09	—	—	—	+24.1	00 29			4
5869	196 881	20 34.8	+43° 58	—	—	—	+24.1	01	01 51		1
5870	192 [illegible]	20 54.9	+47° 13	—	—	—	+24.1	01	02 59		12
5871	214 558	22 33.9	+44° 49	—	—	—	+24.1	03 04	54		3
	Focus test outside the 10" base			—	—	—		focus 26.14	tiH		

Delayed opening due to thinning clouds
Pointer set 192

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp. Prog 1-2-1	REMARKS
1^{26} W	+50° 00	1	6.18 Fo	BSC (Y)	
1^{13} W	+57° 36	1	6.0 F5	1-2-1 KSA 16 (H)	RA cable had been shifted Thick Layer 23° – 23°
0^{32} W	+4° 24	1-2	5.86 B9	1-2-1 BSC (Y)	
0^{1} W	+47° 12	2	6.52 Fo	1-2-1 KSA 39 (H)	Lightning in cloud Seeing
0^{06} W	+44° 06	Avg. 1 2	6.52 B8	1-2-1 KSA 40 (M)	
0^{53} W	+47° 18	2	7.20 B9	1-2-2 KSA 40 (M)	
0^{07} W	+44° 48	2	6.95 F8	1-2-1 KSH 4 (H)	
				2 filters 9-12	SW MC SC S MT ST July 9 10 −20.5 +1.0 +2.2 +30.5 +0.5

Date Tuesday July 9-10/40 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Plate Width	Hour Angle End
5872	H.D. 175443	18 50.3	27 47	I : 12½	Astra II	Set .010	B 26.4	21 00	21 46	4	2h 11m E
5873	" 176466	18 55.3	32 59	"	"	"	26.4	21 50	23 00	1	0h 5m E
5874	" 177595	19 00.3	27 10	"	"	"	26.4	23 04	00 14	2	1h 17m E
5875	" 180316	19 11.0	27 46	"	"	"	26.4	00 18	01 08	3	1h 15m E
5876	" 180613	19 12.1	31 04	"	"	"	26.4	01 12	02 12	4	1h 14m E
5877	" 201345	21 03.9	33 00	"	"	"	26.4	02 16	03 46	1	2h 0m E

Pointer set at 20.8

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	2^{11} E	27 51	1	6.89	K_2	1-2-1	K.S.A 63 Y
	1^{02} E	33 03	1-2	6.91	A_2	1-2-1	" " Y
	0^{07} W	27 13	1-2	7.03	B_9	1-2-1	" " Y
	0^{50} W	27 32	1-2	6.64	B_8	1-2-1	" " M
	1^{34} W	31 09	1-2	6.73	B_9	1-2-1	" " M
	1^{36} W	33 10	2	7.52	B_0	1-2-1	" 65 M

		MC	SC	SW	MT	ST
Jul.	10 10	-21	+1 06.8	+23.8	29^s	+0.5 m

Date Wednesday July 10-11/40 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Plate Hour Angle	Hour Angle End
5878	H.D. 165623	18 018	42 57	I - 12½	Astra II	5ct .010	26.9	21 07	22 31	2	0 34 E
		Thursday July 11-12, 1940				H					
		Cloudy with showers.				Hit .11 at start 2					

Pointer set at 21.1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	0 34 E	42 56	1-2	7.20	A0	1-2-1	K.S.A. 37 M, haze, dish at 21.40, sky filling in at end of exposure. cloud at midnight, sky thick
	clearing by morning						

		MC	SC	SW	MT	ST
July 11	10	-22	+102	+22.4	+29	+0.5
July 12	10	-23	+59	+21.2	+29	+0.5

Date Friday, July 12-13, 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5879	HD. 153897	16 57.1	27 21	I-12½	Ilford II	.010	B +19.0	20 48	21 44	E
5880	160740	17 36.5	-14 04	"	"	"	+19.0	21 49	22 59	W
5881	177152	18 58.4	44 14	"	"	"	+19.0	23 03	00 23	W
5882	184905	19 31.5	43 43	"	"	"	+18.9	00 29	01 09	W
5883	190165	19 58.6	-15 11	"	"	"	+18.8	01 13	02 43	W
5884	209439	21 58.3	32 54	"	"	"	+18.9	02 49	03 39	W

Pointing at 15.3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2[m]	0^{09}E	27 18	1-2	6.79 F5	1-2-1	K.S.A. 61 (Y)
2[h] 51	0^{28}W	47 03	1	7.25 A_2	1-2-1	K.S.A. 37 M
5[h] 21	0^{31}W	47 18	1-2	7.40 B_9	1-2-1	" 38 M
1[h] 41	0^{43}W	43 48	1-2	6.58 Aop	1-2-1	" 39 H
12[h] 21	1^{50}W	45 18	1-2	7.58 A_2	1-2-1	" 39 Hd
03[h] 01	0^{46}W	3306	2	6.95 A_3	1-2-1	" 66 Hd

	MC	SC	SW	MT	ST
J.., 13 10	-24	+1: 11.7	+34.7	+30	+0.5

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Date Sat July 13-14, 1940 Hd-Bk Julian Day 9824

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature A B	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Knd
5885	HD 158013	17 21.7	57 05	I-12	Eastman II	0.10	12.2 20.5	22 32	23 02 3	W 50m
5886	166868	18 07.5	29 39	"	"	"	11.7 20.2	23 09	00 19 1	
5887	190 165	19: 58.6	+45° 11	—	—	✓	+20.2	00 26	01 36 2	
~~5888~~	196 677	20 33.9	+42° 38	—	—	✓	+20.1	01 39	02 39 —	
5888 8	214 945	22 36.7	+44° 29	—	—	✓	+20.1	02 43	03 59 3	
	Focus test	Only do this base		—	—	—	+20.1	Focus 26.15	T.T. 31 3	

Sunday July 14-15 Cloudy

Pointer at 16.4
about 100 visitors. showed moon with 74" A. RVN showed moon with 4".

Hour Angle End	Declination	Seeing	Ptg. Mag.			(Error Meas) REMARKS
W 50m	57 02	4	6.61	A2	1-2-1	
1 20 W	29 37	3	7.52	A2	1-2-1	Some clouds
0 47 W	+49°18	3	7.58	A2	1-2-1	KSA 39 Reference
1 15 W	+42°48	2	7.06	Ao	1-2-1	40 Plate holder slide not pulled Set 5
1 31 W	+43°45	2	7.26	Ao	1-2-1	42 3
					2 Hours 9-12	Set 7

July 15 10 — Me −2.5 Sc +2.54 Sw +26.6 MT +30.5 ST +0.5

Date 1940 July 15-16 Monday Bs **Julian Day** 9826

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
5889 set 5 ✓	HD 186,760	19:41.3	+57°46	1-12	Astra II	set .010		00 26	01 26	4
5890 ✓	202.519	21 11.3	+57°53	–	—	✓	+20.5	01 29	02 59	1
5891 ✓ 3	216.756	22 50.4	+36°33	–	—	✓ —	+20.5	03 05	04 01	2
✓ 7	Focus test	Outside thro' base		–	—	✓ —	+20.5	focus 26 15	11 20.31	2

Cloudy with showers earlier. Pointer at 16.6

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1^{02} W	+57° 54	1–	6.81 F8	1-2-1	KSA 17 (H)
	1^{05} W	+58° 02	1– 0	7.02 A0	1-2-1	18 (V) Strong N wind; ran up lower curtain lightning in south
	0^{28} W	+36° 45	1 0	6.34 F2	1-2-1 2 filters 9-12	BSC (Hd)
						MC SC SW MT ST
						July 16 10 -27 +2 51 +27 +30.0 +0.5

Date Tuesday July 16-17/40 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
5892	H.D. 181119	19 14.1	30 50	I - 12½	Astr. II	Set .010	21.1	20 36	21 30	3
5893	" 184602	19 30.2	45 50	"	"	"	21.1	21 55	23 41	4
5894	" 184905	19 31.5	43 43	"	"	"	21.1	23 46	00 36	1
5895	" 196133	20 30.3	44 50	"	"	"	21.1	00 40	01 30	2
5896	" 206212	21 35.5	45 43	"	"	"	21.1	01 34	03 14	3
5897	" 209993	22 02.2	44 46	"	"	"	21.1	03 37	03 39	4

Counter set at 17.1

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2 04 E	30 55	0-1	6.48 A_0	1-2-1	KSA. 63 H
0 23 E	45 55	1	7.46 A_2	1-2-1	" 39 H
0 26 W	43 48	1	6.35 A_{0p}	1-2-1	" 39 H
0 22 W	44 57	1-2	6.62 A_0	1-2-1	" 40 H
1 10 W	45 54	1-2-1	7.56 B_9	1-2-1	" 41 H
1 10 W	44 57	1	6.14 A_2	1-2-1	" 41 H

July 17 10

MC	SC	SW	MT ST
-28	+2 52	+27	+30 +0.4

Date Wednesday July 17-18/40 L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	plate number	Hour Angle End
5898	H.D. 180613	19 12.1	31 04	I - 12½'	Astm II	Set .010	24.3	20 58	21 52	1	1h E
5899	" 181844	19 13.0	32 57	"	"	"	24.3	21 56	22 52	2	1h E
5900	" 187372	19 44.6	47 39	"	"	"	24.3	22 57	23 57	3	1h E
5901	" 188074	19 48.3	47 09	"	"	"	24.3	00 00	00 36	4	1h W
5902	" 192954	20 12.6	15 33	"	"	"	24.3	00 42	02 12	1	1h W
5903	" 210170	22 03.4	17 04	"	"	"	24.3	02 16	03 16	2	1h W
5904	" 218525	23 03.6	44 01	"	"	"	24.3	03 21	03 51	1	1h W
	Focus check				Outside through haze						

Pointer set at 19.25

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
	1 56 E	31 08	1-2	6.73 B_9	1-2-1	K.S.A 63 M
	0 56 E	33 01	1-2	6.89 B_5	1-2-1	" " M
	0 23 E	47 45	2-3	7.59 Ma	1-2-1	" 39 H
	0 13 W	47 14	2	6.52 F_0	1-2-1	" " H
	1 24 W	15 40	2	7.32 B_9	1-2-1	" 88 M
	0 38 W	17 16	2	6.98 A_0	1-2-1	" 90 Y
	0 12 W	44 14	2	6.36 A_0	1-2-1	" 42 H Lt 2
					2 filters 9-12	" 7½

July 18,0

MC	SC	SW	MT	ST
-28.5	+2.56	+26	+29.5	+0.5

Date Thursday, July 18-19, 1940 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5905	HD 154084	16 58.2	+25 46	I-12	Az. II	Set 010	18.0 26.3	20 39	21 05	3	
5906	158996	17 27.2	+80 13	"	"	"	26.3	21 13	21 43	4	
5907	161178	17 39.0	+72 31	"	"	"	26.2	21 47	22 17	1	
5908	172569	18 35.9	+65 24	"	"	"	26.3	22 31	22 41	2	
5909	172883	18 37.5	+52 06	"	"	"		22 45	23 03	3	
5910	178634	19 04.3	+59 08	"	"	"	26.2	23 09	0 29	4	
5911	193265	20 14.3	+72 34	"	"	"	26.4	0 36	1 26	1	
5912	202345	21 10.1	+74 50	"	"	"	26.3	1 41	2 21	2	
5913	204211	21 22.0	+62 24	"	"	"	26.3	2 25	3 05	3	
5914	211460	22 12.1	+28 41	"	"	"	26.3	3 11	(4 05)	4	

{ From test - outside the bars -

Sat July 20-21 Cloudy. About 15 minutes Showers

Sun. July 21-22 B Very unsettled - rapid alterations between

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 25 E	+25 25	2	6.95	K0	1-2-1	BSC
	0 11 E	+80 10	2	6.98	K2	1-2-1	BSC
	0 09 W	+72 30	2	6.96	K0	1-2-1	BSC
	0 25 E	+65 26	2-3	6.08	A3	2-2	BSC
	0 05 E	+52 08	3	5.83	B9	2-2	BSC
	0 55 W	+59 15	3	7.52	A2	1-2-1	KSA 17
	0 53 W	+72 42	3-4	7.39	F0	1-2-1	KSA 7
	0 42 W	+74 58	4-5	7.38	F5	1-2-1	" 7
	1 14 W	+62 42	4-5	7.20	A0	1-2-1	" 18
	1 23 W	+28 52	4	7.53	G0	1-2-1	" 66
			Totals 9			12-9 etc.	

July 19, 10 — MC −30 SC +2 SW 51. ST +27 MT +0.4 +28

July 20, 10 — MC −30 SC +24 SW 7 ST +28 MT +0.4 +28

Clear and cloudy sky (over)

Date Sunday July 21-22, 1900 3 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5915	H.D. 207978	21 48.0	28 20	I-12½	Actinet	.010	B +25.6	01 27	01 47	2
5916	211474	22 12.2	29 35	—	—	—	+25.5	01 50	02 14	1
5917	219361	23 10.1	27 32	—	—	—	+25.5	03 19	04 07	3
	Focus test outside the fuse							setting 9		

Cloudy earlier

Pointer at 20.2

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 ^m E	28 30	2-3	6.04 F_5	1-2-1	K.S.A. 66 H
0 43 W	29 16	2	2.54 B_8	1-2-1	" " M
0 38 W	27 44	2-3	6.95 A_0	1-2-1	" 67 M
				2 = 9	

		MC	SC	reset SW	MT	ST
July	22^d 10^h	-34^s	+2^m38^s	-39^s	+27^s	+0^m4

Date 1940 July 22-23 Monday Bs **Julian Day** 9833

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5918	HD 150378	16:35.6	+04°25	1-12	Astra II	.010	+30°.1	20 38	20 58	3
5919	157.617	17:19.2	+08° 56	–	–	–	+30.1	21 01	22 01	4.
~~5920~~	~~200.407~~	~~20:58.2~~	~~+43°47~~	–	–	–		~~01 10~~	~~01 15~~	1

Pointer set 2355
B cleared slit to avoid central unexposed stre
in * spectra, noticed on plates 5898 ff.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
		+04° 20	1·2	5·73 A0	1-2-1	BSC (Ha) Slight Haze + clouds.
	0h 25m W	+08° 57	2	6·99 K2	1-2-1	– (H) Clouding up. Variable thereafter.
	~~+43° 58~~	~~2-3~~	~~6·78 A2~~	~~1~~		KSA 40 (Y) {Improving toward 01h Sky mostly overcast by haze soon after reopening. Resat pointer 22.1 Shutter closed 01h 5m. P.H. 1 left loaded for re-use

	mc	SC	SW	MT	ST
July 23, 10	-36	+234	-40	+26	+0.4

Date Sunday July 23-24/40 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5920	H.D. 185037	19 32.2	36 43	I - 12½'	Astra II	Set .010	26.9	23 30	23 56	1 W

Counter set at 21.5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
						Foggy and cloudy early evening, clearing occasionally, seems to stay clear at 22 BC on.
	0 12 W	36 48	1-2	584 B_9	12-1	BSC. H Foggy and cloudy coming on from N.W. at end of exposure. Fog Fogy, cloud at 1.0

Date Wednesday July 24 23/40 L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Plate Center
5921	HD. 177983	19 01.8	15 42	I - 12½	Astra II	Set .010	30 0	20 48	22 18	4
5922	H.D. 182 010	19 17.6	17 34	"	"	"	300	22 30	23 36	1
5923	H.D. 183262	19 23.6	17 38	"	"	"	30.0	23 37	00 37	2
5924	H.D. 201859	21 07.2	27 09	"	"	"	30.0	00 41	02 11	3
5925	H.D. 216 851	22 51.3	43 02	"	"	"	30.0	02 16	03 36	4
5926	H.D. 223386	23 40.0	59 36	"	"	"	30.0	03 43	04 14	3
	Virus check			Outside through base.						

Pointing set at 23.4

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 52 E	15 46	1-2	7.38 A5	1-2-1	K.S.A. 87 Y Light clouds, Spoiled in development R.J.R.
0 10 W	17 37	1-2	6.84 A0	1-2-1	K.S.A. 87 M Haze
0 05 W	17 43	1-2	6.93 A2	1-2-1	K.S.A. 87 Hd
0 35 W	27 20	2-3	7.56 A0	1-2-1	K.S.A. 65 Y
0 37 W	43 15	3	7.36 B5	1-2-1	K.S.A. 42 M
0 22 W	59 38	1-2	6.38 A0	1-2-1	K.S.A. 19 Hd. Lit.
				2 Ft., 9-12	Lit.

July 25, 12

MC	SC & W	ST MT
-40	+2.25 -38	+0.4 +23.5

Date Thursday, July 25-26, 1940 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5927	HD 155513	17 07.0	+61 17	I-12	A-t. II	Sit 010	28.8	20 34	21 08	1
5928	167944	18 12.4	+12 02	"	"	"		21 15	22 05	2
								↑ 22 28		
	Friday July 26-27 B				Cloudy					

Temp. at 22.6

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0.01 E	+61 14	5	7.11 F5	1-2-1	KSA 16 — Clouds low in W & N; light haze & lt. Lightning in W & N
		+12 02	5-4	7.55 F5	1-2-1	KSA 86 — Increasing haze. Thick.

		mc	sc	sw	MT	ST
July	26, 10	-41	+2 21	-37	+20	+0.4
July	27, 10	-42	+2 17	-39	+19	+0.3

Date Saturday July 27-28, 1940 Ad. Bs Julian Day 9838

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature A B	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5929	HD 183262	19 23.6	17 38	I-12	Cramer II	010	17.5 26.0	22 27	23 17 3	53m
5930	190165	19 58.6	05 11	"	"	"	25.8	23 22	00 42	4
5931 15	201,269	21 03.3	+47° 47	—	—	✓	+25.6	00 59	02 19	1
5932 5	21 58.8	22 34.2	+44° 09	—	—	✓	+25°6	02 22	03	2
5933 5	207,139	23 08.5	+15° 31	—	—	✓	+25°7	03 26	04	4
8	Focus Test	outside	+12' basis	—	—	—	+25°.6	focus 26.13	t, 20.31	4

About 200 visitors. Cloudy (clearing from 21.30)
R.J.M. showed visitors. Hd showed telescope.

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Galaxy at 20.6

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	$\Sigma 3^m$	17 43	1	6.93 A_2	1-2;1	
	$+0^{48}$	45- 17	2	7.58 A_2	1-2-1	Zone 39
	$+1^{20}$	+47°38	2	7.50 A0	1-2-1	- 40
	$+0^{52}$	+44°20	2	7.01 A0	1-2-1	- 42
	$+1^{12}$	+10°48	2	6.94 K0	1-2	BSC
					2 filters 9-12	

Delay finding * in guiding eyepiece : finder not lined up well. Reset finder in RA - good ... acq. dec. - Dec. screw tight, at end of thread

Date Sunday, July 28-29, 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5934	H.D. 177599	19 00.3	15 35	1-1½	Eastman Z	.010	+29.0	20 28	21 09	
5935	177983	1901.8	15 42	"	"	"	+28.6	21 09	22 11	
5936	178512	1903.8	12 57	"	"	"	+29.0	22 23	23 09	
5937	188876	1952.2	32 48	"	"	"	+28.7	23 13	00 31	

Pointer at 22.8

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 50 E	15 38	3-2	6.84 A0	1-2-1 A.S.A.87 H	
	0 35 E	15 45	2	7.31 A5	1-2-1 " " Y	
	0 12 W	13 00	2	6.92 B8	1-2-1 " " M	Sky becoming hazy
	0 47 W	32 55	3-2	7.24 A0	1-2-1 " 64 M	Hazy

	MC	SC	SW	MT	ST
July 29 10	-44^s	+2^{m}09^s	-42^s	+15^s	+0^{m}3

Date Monday July 29-30/40 H-S-L **Julian Day**

Plate No.	Object	R.A. 1900 (1935)	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5938	N.G.C. 6205	16 39.3	+36 35	Newtonian	Eastman 40			21 03	21 09	1
5939	" 6218	16 43.8	-01 50	"	"			21 16	21 26	2
5940	" 6779	19 14.0	+30 03	"	"			21 31	21 56	1
5941	" 6254	16 53.6	-04 00	"	"			22 05	22 17	2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 42 W				Lightning flashes in the N.W. continuing quite steadily. Distantly fogging the plates.
	0 55 W			Haze Light cloud	
	1 05 E			"	
	1 35 W			Haze	

Clouds after this exposure waited until 2 30 then closed. Sky cloudy

	MC	SC	SW	MT	ST
July 30, 10	-46	+2 05	-46	+11	+0.2

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Date Tuesday July 30-31/40 H.S.L. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Plate Hold
		1935								
5942	NGC 6205	16 39.3	+36 35	Newtonian	Eastman 40			21 11	21 17	1
5943	" 6779	19 14.0	+30 03	"	"			21 23	21 43	2
5944	" 6366	17 24.1	-05 01	"	"			21 49	22 14	1
5945	" 6218	16 43.8	-01 50	"	"			22 17	22 23	2
5946	" 6254	16 53.6	-04 00	"	"			22 26	22 32	1
5947	" 6779	19 14.0	+30 03	"	"			22 42	23 02	2
5948	" 6402	17 34.1	-03 12	"	"			23 15	23 55	1
5949	" 6366	17 24.1	-05 01	"	"			00 02	00 27	2
5950	" 6981	20 49.5	-12 48	"	"			00 36	01 06	1
5951	" "	"	"	"	"			01 08	01 38	2
5952	" "	"	"	"	"			01 39	02 09	1
5953	" 6205	16 39.3	36 35	"	"			02 22	02 30	2
5954	" 6779	19 14.0	30 03	"	"			02 36	03 01	1
5955	" 7492	23 05.1	-15 57	"	"			03 11	03 41	2
5956	" 7089	21 29.9	-01 07	"	"			03 44	03 52	1

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 54 W		Very		
1 15 E		poor		
1 07 W				
1 56 W		↓		
0 05 W		possibly		refocussed
2 37 W		improving		
3 19 W		slightly		
0 33 W				
1 05 W		worse?		
1 36 W				
2 07 W				
4 05 W				
0 54 W				This is the farthest south I have yet worked with Newtonian
2 40 W				

		m.c.	s.c.	s.w.	m.t.	s.t.
July 31	10	-47	+2 01	-38.5	+8	-0.1
Aug. 1	10	-48	+157	-49	+6	0.0

Date Wednesday July 31 Aug 1/40 H.S.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Plate Hour Angle
5957	N.G.C. 6205	1935 16 39.3	+36 35	Newtonian	Eastman 40			20 53	21 01	1
5958	" 6779	19 14.0	+30 03	"	"			21 09	21 29	2
5959	" 6366	17 24.1	-05 01	"	"			21 32	21 57	1
5960	" 6218	16 43.8	-01 50	"	"			22 03	22 11	2
5961	" 6254	16 53.6	-04 00	"	"			22 13	22 21	1
5962	" 6779	19 14.0	+30 03	"	"			22 24	22 44	2
5963	" 6366	17 24.1	-05 01	"	"			22 55	23 20	1
5964	" 6402	17 34.1	-03 12	"	"			23 36	00 06	2
5965	" 6205	16 39.3	36 35	"	"			00 15	00 23	1
5966	" 6366	17 24.1	-05 01	"	"			00 36	00 57	2
5967	" 6981	20 49.5	-12 48	"	"			01 01	01 31	1
5968	" 6981	"	"	"	"			01 32	02 07	2
5969	" 6779	19 14.0	+30 03	"	"			02 18	02 33	1
5970	" 7492	23 05.1	-15 57	"	"			02 49	03 37	2
5971	" 7089	21 29.9	-01 07	"	"			03 37	03 47	1

Cool NW wind; many cirrus.

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1	0 42 W		Poor		H
	1 24 E				S
	0 33 W				
	1 48 W				
	1 48 W				
	0 09 E				
	2 16 W				H
	52 W				H Haze - quick to cloud over frequently
	07 W				S Haze
	14 W				
	03 W				
	31 W				
	45 W				
	50 W				
	39 W				

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Date Thursday August 1-2/40 H.S.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
5972	N.G.C. 6205	1935 16 39.3	+36 35	Newtonian	Eastman 40			20 50	20 56	1
5973	" 6779	19 14.0	+30 03	"	"			21 04	21 24	2
5974	" 6402	17 34.1	-03 12	"	"			21 35	22 10	1
5975	" 6333	17 15.6	-18 28	"	"			22 15	22 40	2
5976	" 6779	19 14 0	+30 03	"	"			22 46	23 [illegible]	1
5977	" 6366	17 24 1	-05 01	"	"			23 22	23 41	2
5978	" 6218	16 43.8	-01 50	"	"			23 52	23 [illegible]	1
5979	" 6254	16 53.6	-04 00	"	"			00 00	[illegible] 06	2
5980	" 6402	17 34.1	-03 12	"	"			00 09	00 44	1
5981	" 6205	16 39.3	+36 35	"	"			00 53	[illegible] 39	2
5982	" 6981	20 49.5	-12 48	"	"			01 41	01 16	1
5983	" 6779	19 14 0	+30 03	"	"			02 [illegible]	02 41	2

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 43 W		Fair		H
1 25 E		Poor		S
1 00 W				Focussed S
1 49 W		Poorer		S Lowest declination was taken at last.
0 16 W		[illegible]		H
[illegible] W				H
3 39 W				S
3 37 W				S
3 35 W				S
				H
1 31 W				S 01 10 Clouds solid over sky, [illegible]
3 31 W				S Clouds more clouds, [illegible]

MC SC MT ST
Aug 2d 10h: −50s +1m 53s +04s 0m0

Date Friday, August 2-3, 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dec
5984	H.D. 186377	19 38.9	32 11	I-12½	Astro II	.010	B +22.0	22 45	23 17	1	
5985	186568	19 40.1	33 55	"	"	"	+22.0	23 20	23 50	1	
5986	187279	19 44.1	31 15	"	"	"	+21.6	23 54	00 18	2	
5987	191855	20 06.9	30 35	"	"	"	+21.6	00 53	01 45	4	
5988	216716	22 50.0	30 56	"			+21.7	01 50	03 36	3	
	219361	23 12.1	27 32	Too cloudy - couldn't find star in guide							
		1940 Aug 3-4	Sat. night		M-105		Cloudy with light shower				
		Friday Aug 4-5	B	Thunder shower							
		Sunday - Aug 5-6		M, Th. [illegible]							

Pointer at 178
Cloudy earlier

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22[11]	0 05 W	32 17	1	5.95 Az	1-2-1 B.S. V Error seeing and guiding
[illegible]	38 W	34 00	1	5.95 Ao	1-2-1 B.S. H
[illegible]	1 32 W	31 20	1-0	6.65 Ao	1-2-1 N.S.A. 64 M Seeing worse
[illegible]	2 05 N	30 35	1	6.70 Bq	1-2-1 " " M Haze
[illegible]	1 14 N	31 09	1	7.71 Ao	1-2-1 " 67 M Light clouds
	guiding by error.	Cloud dome.			
					MC SC MT ST
					Aug 3 10 -52" +1:49 +04[s] 0.0
[illegible]	130	[illegible]			
					MC SC MT ST
					Aug 5 10 -55.5 +1 39.5 +1.5 0.0
					SW
					Aug 6 10 -57 +1:36 -56 00 0.0

Date Tuesday Aug. 6-7, 1940 B-H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5989	H.D. 179820	18 26.8	-01 04	I-12½	Astra II	.010	+24.	20 18	20 [illegible]	14
5990	175869	18 52.3	02 29	"	"	"	+24.5	20 51	21 [illegible]	1
5991	183207	19 23.1	02 13	"	"	"	+24.6	21 15	21 41	3
5992	188350	19 43.6	00 01	"	"	"	+24.5	21 45	22 13	-
5993	187235	19 43.9	38 09	"	"	"	+24.6	22 10	22 30	1
5994	190887	20 06.0	12 39	"	"	"	+24.5	22 35	0 05	4
5995	196359	20 31.8	+44 03	"	"	"	+24.4	0 09	1 29	
5996	217695	22 57.4	+47 24	"	"	"	+24.5	1 33	2 57	2
5997	222143	23 33.0	+45 39	"	"	"	+24.5	3 01	3 47	3
5998	743	00 06.7	+47 36	"	"	"	+24.4	3 49	4 36	4

Printer at 19h

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 58 E	-01 03	0	5.27 A_2	1-2-1	B.S. Y
0 59 E	02 28	1	5.60 B_8	1-2-1	B.S. Y
1 01 E	02 49	1	5.90 B_9	1-2-1	B.S. H
1 04 E	00 07	1	5.57 A_0	1-2-1	B.S. H
0 30 E	38 16	1	5.65 B_9	1-2-1	B.S. H
0 45 W	2 45	1-2	7.57 F_2	1-2-1	K.S.A 88 Y
1 41 W	44 11	2	7.51 F_0	1-2-1	KSA 40
0 44 W	47 37	2-3	7.50 A_0	1-2-1	42
0 57 W	45 52	3-4	7.34 G_5	1-2-1	43
1 12 W	47 50	3	7.30 K_0	1-2-1	43

Plate 5994-97 measured 5994-97 by [illegible]

M.C. SC SW MT ST

Aug. ? 10 -59 +131 -10,5 -02 -0.1

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Date 1940 August 7-8 Wednesday Bs **Julian Day** 9849

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
5999 5	(1), 62, 570	17.466	+23°20	1 - 12	Astro I	Set .010	+25.5C below	20 12	20 40	1
6000	165, 623	18.018	+42°51	-	-	-	+25.3	20 43	21 [illegible]	2
6001	176, 669	18 56 2	+42 12	—	—	—	+25.3	21 49	22 [illegible]	3
6002	189, 287	19 34 6	+41 39	—	—	—	[illegible]	22 52	23 19	4
6003	19[illegible]	20.20.7	+42 [illegible]	—	—	—	+25.3	23 [illegible]	0 17	1
[illegible]	208, 878	21 49.1	+41°46	—	—	—	+25.3	0 [illegible]	01 26	2
6005	214, 557	22.33.9	+43°19	—	—	—	+25.3	01 28	[illegible]	3
6006	216, 18-	22 58 [illegible]	+41°42	—	—	—	+25.4	02 [illegible]	03 40	[illegible]
(100) 3	581	00 24.6	+37°30	—	—	—	+25.1	03 50	04 36	1
7	Focus test	outside	1/2 hour	—	—	—	+25.2	26 [illegible]	26 31	[illegible]

Pointer at 202

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Prog	REMARKS
−0^20	+22°18	1-2	5.99 A3	1-2-1	BSC (A)	
+0^32	+42°58	2-3	7.20 A0	1-2-1	KSA 37 (M)	
+0^40	+42°58		7.49 B8	1-2-1	38 (M)	
+0^10	+42°06	3	6.54 A.	1-2-1	39 (Y)	
+0^34	+43°03	3	7.32 I.	1-2-1	4. (M)	
+0^20	+42°58	3	7.36 B9	1-2-1	41 (Y)	
+0^51	+45°30	3	7.57 F8	1-2-1	42 (Y)	
+0^35	+47°54	3-4	7.46 A.	1-2-1	. 43 (M)	While I was finding this star the mt [illegible] to start at 0 galvo needle worked over to left. Shut off feed & let temp. come back instead of touching
+0^31	+58°00	3-4	7.26 A3	1-2-1	8 (M)	
				2 files 9-12		

Aug 20 — −60 +39 +01 −4 −5.5

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Date Thursday, Aug 8-1, 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
6008	H.D. 170828	18 26.6	16 52	I-1½	Astra II	.010	+27.0	20 14	20 20		2
6009	166435	18 05.	29 54	"	"	"	+26.9	20 [illegible]	21 [illegible]		4
6010	186901	19 [illegible]	35 51	"	E-33	"	+25.5	21 37	22 [illegible]		2
6011	186902	19 40.0	35 50	"	Astra II	"	+26.5	22 45	23 35		3
6012	187352-3	19 47.8	21 44	"	E-33	"	+26.5	23 12	23 18		1
6013	190593	20 02.6	16 23	"	E-40	"	+26.3	00 16	00 20		4
6014	212670	22 20.9	17 57	"	Astra II	"	+25.9	02 04	03 04		2
6015	219361-2	23 13.8	30 29	"	"	"	+26.1	03 04	03 13		3
6016	[illegible] 487	00 04.3	45 50	"	"	"	+25.7	03 55	[illegible]		
	Focus test			Outside Hartmann					9-12		

Pointer at 22.5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 14E	16 54	4	5.67	A	2-2 B.S. Hd
	0 12W	29 57	4-3-2	7.57	B_0	1-2-1 K.S.A. 62 H
	0 07E	35 57	3-2	6.6	A_0	1-7-4 B.S. H (Plate cracked) Temp. drop due to
	0 44W	—	3	7.4	A_0	1-2-1 B.S. H (No [illegible] guide) [illegible] contact
	1 24W	24 50	4-5	6.09	F_5 A_2	3-6-3 B.S. H [illegible] reset to 22.5 at beginning
	2 50W	16 30	3-2	7.59	A_0	2-2-2 K.S.A. 55 Hd (Plate fogged from last exposure) of exposure plate 6 on
	1 34W	18 07	2-3	7.40	K_0	1-2-1 " 70 H Slit control is not operating
	1 24W	27 44	3	6.15	A_0	1-2-1 " 67 M right. Have had to work
	1 16W	46 04	3	6.98	B_9	1-2-1 " 43 M several times to maintain
						temp.
						Temp dropped to 25.1 during
						last exposure.
	Contacts cleaned ✓					Six plates packed in cardboard box

	MC	SC	SW (reset)	MT	ST
Aug 9 10	-1^m03	$+1^m22.7$	$-01^s.4$	-06^s	$-0^m.2$

SW reads Greenwich sidereal time

Correction $-20^s.1$

Date Friday Aug 9-10, 1940 HA Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature A B	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Mid
6017	HD 161959	17 43.4	28 58	I-12	Astra 4	010	17.7 27.8	20 13	21 17 2	4 23 3
-6018	mwc 312 HD 180398	19 11.3	12 56	"	"	"	17.8 27.6	21 22	22 58 3	1 47 3
-6019	mwc 320	19 41.3	5 44	"	"	018	27.4	23 02	01 02 4	12 15
-6020	mwc 383 HD 209296	21 57.2	56 14	"	"	"	26.5	01 15	02 49 1	1 47 5
-6021	mwc 402 HD 223501	23 45.0	61 39	"	"	"	26.5	02 56	04 30 2	11 46

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	W 28m	28 56	.1	7.36	Ho	1-2-1	
	W 41m	13 00	.1	7.7	B3)2e	1-2-1	
	W 2h 15m	5 50	1	8.5	B5)2e	1-1-1	Amp in Temp: Recd pointer (26.9)
	W 1h 47	56 25	2	8.1	B(5)e	1-1-1	Recd pointer again and repeated Cy
	W 1h 40	61 52	3	8.2	B3e	1-1-1	too much — finally controlled best by watching Thermometer.

		M.C.	SC	MT	ST
Aug	10	-65s	+1.8	-05s	-0.1m

Found one of Temp coils in aperture unit was floating from its mounting. Started OK for a couple hours.

Date Saturday August 10-11, 1940 H-Bs Julian Day 995+

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
6022	HD 182 190	19 18.4	+57 28	I-12	A+t. II	set #10	27.4 - 28.1	22 28	-3 24	05	3
6023	193265	20 14.3	+72 34	—	—	✓	27.7 -	23 45	00 45	+1 32	4
[illegible]	204 231	21. 22 [illegible]	[illegible]	—	—	✓	27.7	[illegible] 49	[illegible] 59	[illegible]	1
6025	222 314	23. 36 [illegible]	[illegible]	—	—	✓	[illegible]	02 [illegible]	[illegible]	[illegible]	2
6026	3481	00 36.3	+59 29	—	—	✓	[illegible]	03 35	03 55	[illegible]	3
6027 (3)	8[illegible]	01 17	+51 37	—	—	✓	27.7	03 [illegible]	[illegible]	[illegible]	4
[illegible]	focus test -	outside thro' base	[illegible]	—	—	✓	27.6	focus 20.16	[illegible] 20.32	[illegible]	4

About 75 visits. About α + 5 Hya thin hazy haze with 74". Is about more than 4"

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 05 W	+57 32	3	7.45	Ma	1-2-1	KSA 17 ← * Hazy. Stars out of ~~focus~~ OK.
	+1 32	+72° 36	3	7.39	F0	1-2-1	- 7
	+1 47	+57° 49	3-2	7.56	F8	1-2-1	- 18
	+0 14	+57° 37	3	7.22	A0	1-2-1	- 10
	+0 18	+59° 36	2-3	7.43	A3	1-2-1	- 9
	+0 16	+57° 50	2+	6.87	F5	1-2-1 = r Hya 9-2	- 8
							* Tightened contacts on both of photograph mounts. Guiding ~~at~~ points at 3-4" to ensure tolerance. (LEG 11-7) Pointing OK 23 40 44.
							Not lowered yet for points

Date Sunday, Aug 11-12, 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6028	[illegible]	[illegible]	17 24	I-12½	Ortho II	.010	+27.5	20 14	21 [illegible]	1
6029	[illegible]	[illegible]	17 50	"	"	"	+27.5	21 18	22 26	2
6030	[illegible]	[illegible]	31 15	"	"	"	+27.5	22 32	23 08	3
6031	[illegible]	[illegible]	32 48	"	"	"	+27.5	23 12	[illegible]	2
6032	[illegible]	[illegible]	42 01	"	"	"	+27.4	00 30	01 [illegible]	1
6033	[illegible]	[illegible]	42 27	"	"	"	+27.4	01 26	02 [illegible]	1
6034	[illegible]	[illegible]	45 50	"	"	"	+27.4	02 50	[illegible]	3
6035 (1)	5764	[illegible]	47 29	"	"	"	+27.4	03 45	[illegible]	2
(1)	Focus test			Outside the	Base					

Cloudy August 12-13, 1940 H- Cloudy with [illegible]

Center at 13.1

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 43 E	17 27	2	7.05 Fe	1-2-1 [illegible] Y Dew [illegible]
0 23 W	17 54	2	7.30 Fe	1-2-1 " " Y
0 39 W	31 21	2	6.65 Ao	1-2-1 " " 64 M
1 35 W	32 55	2	7.24 Ao	1-2-1 " " M Light clouds
1 38 W	42 10	2	7.15 Bg	1-2-1 " " 70 M
1 44 W	42 40	2	7.50 Bg	1-2-1 " " 41 M Clear
0 39 W	46 04	2	6.71 Bg	1-2-1 " " 43 M
0 36 N	47 42	2-3	6.95 Bg	1-2-1 " " 20 M

6-12 Aug 12 MC -1° 08 SC +1° 29.4 MT -03s ST -3m.1

Aug 13 [illegible]

Date Tues Aug 13-14, 1940 Hel Julian Day 7835

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6036	HD 203015	21 14.5	17 24	I-12	a-Zu II	0.10	27.1	23 35	01 05	1 41 W
6037	209439	21 58.3	32 54	"	"	4	27.0	01 10	03 10	1 42
6038	223386	23 44.0	59 25	"	"	"	27.0	03 15	04 25	1 51

Cloudy session.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS Pointer 19.5
	W1h01	17 34	1	6.97 F_2	1-2-1	Very hazy
	W2h22	33 05	1	6.95 A_3	1-2-1	" "
	W1h52	59 38	1	6.38 A_0	1-2-1	Better.

	M.C.	SC	ST	MT
Aug. 14	10 -1	11.5 +1	03 -0.2	-0.5

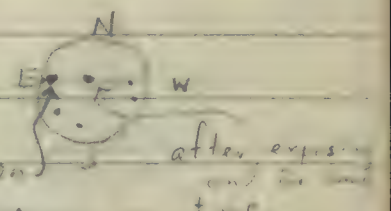
Date 1940 August 14-15 Wed Bs **Julian Day** 9256

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
[illegible]	HD [illegible]	18 08.0	[illegible]	1-12	Astra II	.010	+27°9	20 [illegible]	21 [illegible]	4
6040	192,954	20:12.6	+15°33	—	E 40	—	+28.0	21 47	[illegible] 27	1
[illegible]	[illegible]	22 [illegible]	+11°08		Astra II		+27.9	[illegible] 37	01 37	2
[illegible]	210,[illegible]	[illegible] 12.8	+30°29	—	—	—	+28.0	01 40	02 [illegible]	3
[illegible]	224,380	23 51.3	+47°43	—	—	—	+27.9	03 39	04 43	4
(2)	[illegible]	[illegible]	[illegible]	—	—	—	[illegible]	[illegible]	[illegible]	4
(3)	HD 224,175 ?	23:50.7 ?	+47°40 ?	—	—	—	—	03 09	03 33	4

Hour Angle End

Pointer 20.0

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	+0^{h}50^{m}	+12°1-	2	7.55 F0	1-2-1	KSA 86 (H)
	+1^{h}29^{m}	+15°40	2-	7.32 B9	2-4-1	- 82 (M) Spots 6^{m} N. b[illegible]g
	+0^{h}46^{m}	+11°20	2	7.10 K5	1-2-1	BSC (H-1) L[illegible] setting d[illegible] Corrected
	+1^{h}-	+30°40	2	7.44 F0	1-2-1	KSA 67 (M)
	+2^{h}0^{m}	+47°19	2	7.46 A0	1-2-1 2f.1b. 9-12	- 43 (H) K [illegible] Finally decided on [illegible] after exp[illegible]
	0^{h}53^{m}	+47°58	2	7.82? K0?	1-	(from HJ Cut)



	MC	SC	ST	MT
Aug. 15, 10	-1	13.5 +58.7	-0.2^{m}	-0.5^{s}

Date Thursday, Aug 15-16, 1940 M Julian Day 1

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End	D
-6044	H.D. 170420	18 24.5	+10 49	I-12	Kod. IIa	.015 L	+26.1 B	20 16	21 56	1	1	
-6045	187949	19 47.5	-14 51	—	—	.010 L	+26.3	22 01	23 17	2	1	
-6046	B.D. 56°2640	21 43.1	+56 28	—	—	.020 L	+26.4	23 30	3 00	3	1	

Pointer at 19.13.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 49W	10 50	2-3	7.9	A0	1-½-1	
	0 47W	-14 46	3-2	6.50	A2	1-2-1	slight winds in SE at 22.30
	2 52W	56 38	3	9.0		1-2-1	clouds move very fast after 24.30, images faint & large part of time Colorado Exam.
							Good Lord
							Plate box in dark room drawer

		NC	SC	GSW	ST	MT
Aug 16	10	-1 15.5	+54.7	-6.8	-0.1m	-1.5s

Date Friday August 16-17, 1940 H-Bs **Julian Day** 985

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
6047	HD 184905	19 31.5	+43 43	I-12	Astr. TJ	.010	25.9	20 00	20 30		4
6048	184602	19 30.2	+45 50	"	"	"	26.0	20 33	21 49		1
6049	187372	19 44.6	+47 39	"	"	"	25.9	21 53	22 43		2
6050	178634	19 04.3	+59 08	"	"	"	26.0	22 48	23 38		3
6051	201032	21 02.0	+62 59	"	"	"	-2.0°	00 01	00 51		4
6052	222.514	23 36.2	+57°17	"	"	"	+16.0	01 13	02 01		1
6053	3521	20:36.3	+59°23					02 04	02 09		
6054	5343	01 [illegible]	+57°26	—	—	—	[illegible]	03 06	03 [illegible]		3
[illegible]	[illegible]	01 17.	+57°37	—	—	—	[illegible]	04 08	04 14		4
[illegible]	[illegible]	[illegible]	[illegible]	—	—	—	—	[illegible] 16	17 20		4

Pointer 18.9

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 39 E	+43 48	3	6.53	Aop	1-2-1	KSA 39
	0 15 E	+45 56	3	7.46	A2	1-2-1	"
	0 21 W	+47 45	3-4	7.59	Ma	1-2-1	" Very light cirrus thin clouds
	+2 17	+59 12	3-4	7.52	A2	1-2-1	" 17
	+1 21	+63 08	3	7.40	A5	1-2-1	" 18
	-0 13	+57° 30	3	7.32	A	1-2-1	" 19 Had to readjust finder R.A. + dec.
	-0 10	+53° 35	2-3	7.43	A3	1-2-1	" 8 Heavy dew
	+0 38	+57° 41	3-4	7.56	K2	1-2-1	" 1 Had to adjust finder again. Thicker ground fog
	+0 41	+57° 50	3-4	6.57	F5	1-2-1	" 8

MC SC G.S.W. ST MT

Aug 17 10 -1165 +17 -11.5 -0.1 -02.5
Reset

Date Sat Aug 17-18, 1940 Hd-B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
	1940 Aug	15-19	Sunday	Bs	Cloud,	w. th	rain	high wind			

Sat Aug 17-18 About 100 visitors. Showed
& Here Ringneb with 74" 13
showed moon with 4".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						Set on #D183262 but couldn't focus. Found belt broken. Repaired it. Clouds by that time. Note: needs focusing up about 1¾ min. providing belt is on same way as before (without twist now) Cloudy rest of night.
						MC SC E.S.W. ST MT
						Aug 19 10 -1 21 +8 -20 -0.2 -4.0

Ending Time E.S.T.

Date Monday Aug 19-20, 1940 B Julian Day 9861

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
6056	H.D. 176821	20 34.7	21 28	I-12½	Cramer II	.010	+19.2	23 46	00 11
6057	200707	20 58.2	13 47	"	"	"	+19.0	00 19	01 15
6058	216716	22 59.0	30 16	"	"	"	+19.0	01 20	02 36
6059	3267	00 30.7	-18 11	"	"	"	+19.0	02 57	(03 35)
	Focus Test			Outside the Lane					

Points at 139

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 13 W	21 37	1	5.94	A0 1-2-1	O.S. #1 Cloudy earlier
1 51 W	43 56	1	6.78	A2 1-2-1	O.S.A. 40 Y
1 37 W	31 10	1	7.41	A0 1-2-1	" 67 M
+0 29	48 14	1	7.47	A0 1-3	" 20 M Light Clouds Image
				9-12	grows by 0.5" Thick later, cloud
					up +10

		MC	SC	GSW	ST	MT
Aug.	20 10	−1.23	+02	−26	−0.2	−05

Date Tues Aug 20-21, 1940 HL Julian Day 9862

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6060	HD 160781	17 36.7	06 22	I-12	Contra II	010	17.3	20 05	20 45	1
6061	MWC 312 HD 180398	19 11.3	12 56	"	"	015	17.4	20 49	22 09	2
6062	HD 190338	19 57.4	16 51	"	"	010	17.6	22 ~~33~~	23 23	3
6063	HD 196687	20 33.9	42 38	"	"	"	17.5	23 32	00 22	4
6064	HD 214946	22 36.7	44 29	"	"	"	17.8	00 25	01 29	1
6065	MWC 402 HD 223501	23 53.8	~~61~~ 39 ~~45~~ 32	"	"	"	17.5	01 35	03 11	2
6066	MWC 409 HD 225095	23 58.3	55 00	"	"	"	17.8	03 19	04 45	3

Hour Angle End	Declination	Seeing	Ptg. Mag.			Pointer 13.3 REMARKS
~~—~~ ?	06 20	1	6.98	K0	1-2-1	BSC
W 35m	13 00	1	7.7	B(s)e	1-2-1	
W 1h 01	16 55	1-2	6.89	A2	1-2-1	Trouble with RA setting - fixed Tooke brighter S. following & fairly close pair.
W 1h 27	42 46	2	7.06	A0	1-2-1	
W 31m	42	2	7.26	A5	1-2-1	
W 1 05m	61 51	2	8.2*	B3e	1-2-1	* Tooke brighter than B2
W 2h 25	55 14	2	7.6	B1e	1-2-1	

		Mc	SC	GSW	MT	ST
Aug 21	10	-1m25	-03s	-26s	-04s	-0m2

Date 1940 Aug. 21-22 Wednesday Bs Julian Day 9863

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
6061 (5)	ND 165.310	18:07.2	+13°02	1-12	Astro 3	Set .010	+19°3	19 55	20 20		4
6065	183.440	18:14.6	+14°30	—	—	—	+19 3	20 22	21 40		2
6069	190.405	19.59.7	+17°26	—	—	—	+19 3	21 49	23 01		1
6070	212.670	22:20.9	+17°57	—	—	—	+19.3	23 06	00 06		2
6071	219.139	23 08 6	+14°21	—	—	—	+19 2	00 10	00 45		3
6072	219.(53)	23 10 1	+27°32	—	—	—	+19.3	00 32	01 30		4
6073	498	00 03 9	+17°40	—	—	—	+19.3	01 32	02 [illegible]		1
6074	163	02 [illegible]	+32°21	—	—	—	+19 2	02 [illegible]	03 [illegible]		2
6075	11 253	02 17.5	+17°09	—	—	—	+19 2	02 54	03 [illegible]		
6076 (3)	19 783	03 05 4	+14°49	—	—	—	+19.3	03 53	04 35		
2	Focus test	outside blue [illegible]									

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
-0°02	+13°05	1-2	6.46	A0	1-2-1	KSA 86 (M)
41 13	+12°30	1-2	7.29	B8	1-2-1	——— (M)
+0 43	+17°33	2	7.27	F8	1-2-1	— 88 (Y)
-0 33	+18°08	3	7.40	K0	1-2-1	— 90 (H) Light clouds
-0 40	+10°44	3	6.94	K0	1-2-1	BSC (H) " "
+1 02	+27°43	3	6.95	A0	1-2-1	KSA 67 (M) Thicker Heat at 6 thru F
-0 19	+17°52	3	6.69	K0	1-2-1	— 68 (H)
+0 6	+32°34	3	7.1?	K5	1-2-1	BSC (Y)
-0 47	+17°19	3	7.32	A2	1-2-1	KSA 70 (M)
-0 43	+12°49	3	7.22	G5	1-2-1	KSA 71 (Y)
					10-12	

Date Thursday Aug 22-23, 1940-M Julian Day 9864

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
- 6077	HD 170470	18 24.5	+10 49	I-12	Astra II	.015 L	+18°.4	20 00	22 04	1	
- 6078	BD 56° 2640	21 43.1	+56 28	—	—	.020 L	+18°.4	22 25	1 29	2	
- 6079	BD 63° 0110	0 48.6	+63 33	—	—	.020 L	+18.4	1 36	+ 30	3	

Had some considerable trouble getting a correct balance in heat control at start of evening
Pointer at 13·82

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	+1 39	10 51	2	8·1	A0	1-½-1	cloudy all afternoon, clouds still in south when finished lightening on S
	1 32W	56 37	3	9·0	—	1-½-1	had some trouble locating the field
	1 28W	63 45	3	9·1	—	1—1	clouds obscuring; 2-10 [illegible] clouds intermittently till dawn

	MC	SC	GSW	ST	MT
Aug 23d 10h	−1m28s	−13s	−27s	−0m1	−03s

Date Friday Aug 23-24, 1940 Hd Julian Day 1805

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
6080	HD 168270	18 13.8	18 06	I-12	a-i	010	15.6	19 56	20 26	4	51m
- 6081	MWC 307 HD 174886	18 47.7	-10 21	"	"	016	15.4	20 39	21 53	1	55s
- 6082	MWC 320	19 41.3	5 44	"	"	"	15.8	21 58	00 12	2	12s
6083	HD 203991	21 20.5	18 02	"	"	010	15.9	00 16	02 04*	3	1h 34

Hour Angle End	Declination	Seeing	Ptg. Mag.			pointer 12.0 REMARKS
W 01m	18° 05'	1	5.99	A0	1-2-1	
W 55m	-10 19	1	8.1	Bse	1-1-1	
W 2h 20	4 40	1	8.5	Bsre	1-1-1	
W 2h 34	18 11	1	7.47	A0	1-3	*clouds 00.40 Still cloudy 02.50 Clouded

	MC	SC	GSW	MT	ST
Aug 24d 10h	-1:29	-17	-27	-01	-0.1

Date Saturday, Aug. 24-25, 1940, M-B Julian Day 9866

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
- 6084	B.D. 56° 2640	21 43.1	+56 28	I - 12	Astro II	.024	B +16.3	12 44	01 46	4
- 6085	+63° 0110	00 48.6	+63° 33	—	—	—	+16.3	01 46	04 45	1

About 75 visitors -
M showed M-13, α Her M51 with 74"
Ba " M7, α Lyr, α Cyg " 4"

Points at 12.22

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
+1 51	56 38	2	9.0	—	½–½–½	light clouds over ring, near start
+1 51	+63° 45	2	9.1		½–½–½	" " "

Date 1940 August 25-26 Sunday, Ex **Julian Day** 9[illegible]7

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6086	HD 2913	00 27 3	+06° 25	1-12	Astra II	St .010	+15°.7	02^09	02^47	2
6087	7019	01 05.5	+37° 12	—	—	1	+15 6	02^33	03^17	3
6088	8662	01 22.3	+43° 32	—	—	"	+15 6	03^20	04^06	4
6089	15,814	02 27 5	+14° 36	—	—	—	+15.7	04^10	04^50	1
(2)	Focus trial	outside thru' base		—	—	—	—	—	—	

Monday, Aug 26-27, 1940, M

Cloudy for first part of night. Cleared [illegible]

Quite Cloudy earlier; began to clear at 0h

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
+0 18	+06°37	1	5.66	A0	1-2-1	BSC Hdj sta. gone 19 - 23
+0 10	+37°24	1	5.70	B8	1-2-1	- (H)
+0 42	+43°45	1+	6.54	B9	2-1-1	KSA 21 (M)
+0 21	+14°46	2-	6.49	F5	1-2-1	- 70 (Y)
					10 - 12	

just before 23:00 hrs. but thick haze soon closed in again
Still thick at 2:00 hrs.

	MC	SC	GSW	MT	ST
Aug 27 10	-1:33	-31	-24	+02	-0.1

Date Tuesday Aug 27-28, 1940 H.C. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6090	HD 199648	19 08.3	21 23	I - 12	a ha I	0.10		21 16		2
		1940 Aug 29-30 Thurs			2s	Cloudy				
		Saturday Aug 31 - Sept 1 1940					M - L			
					11 - Low strata					
		Fairly clear at 11.00								
		Thick again. Remained mostly thick								
		Broken clouds Bright stars shone through								
		Clear at 2.00 Very mostly thick								

Mostly cloudy Till 20.50
Then fairly clear

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
—	—			5.90	B9 1=	Thick 21.25

		MC	SC	GSW	MT	ST
Aug 28	10	-1:35	-35	-28	+03	-0.2
29	10	-1:35	-40	-30	+04	0.0
30	10	-1:37	-46	-33	+04	-0.1
31	10	-1:39	-51	-32	+06	0.0

About 15 minutes
Cloudy —

Date 1940 Sept 1-2 Sunday B.S. **Julian Day** 9874

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
6090 (5)	H D 180,316	19:11.0	+27°46	1-12	Ast. a H	set .010	+21.7C	19 58	21 10	3	
6091	187,640	19:45.9	+28°	"	"	"	+21.6	21 12	21 52	4	
[illegible]	196,[illegible]	20:30.3	+44°50	"	"	"	+21.7	21 55	22 39	1	
6093	198,480	20:45.5	+42°43	"	"	"	+21.7	22 [illegible]	00 [illegible]	2	
[illegible]	[illegible] 439	21-58.3	+32°54	"	"	"	+21.9	00 [illegible]	01 21	3	
[illegible]	216,5[illegible]	[illegible]	+3[illegible]	"	"	"		01 45			

Monday Sept 2-3 1940 M. Clouds and clouds same [illegible] from NW before telescope could be started.

Partly Cloudy earlier Pointer at 16.3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	+0^{23}	+27°50	0	6.64	B8	1-2-1	KSA 63 (M) Cloudy in south Taken on plate holder left loaded
	+0^{31}	+28°17	0-1	6.24	B8	1-2-1	" 64 (H)
	+0^{38}	+44°58	2	6.62	A0	1-2-1	" 40 (H)
	+1^{46}	+41°43	1-2	7.21	B8	1-2-1	" 40 (M)
	+1^{49}	+33°05	1	6.95	A3	1-2-1	" 66 (H)
		+34°16	1	7.50	A2	1	" 67 (H) Haze over horizon Heavy ground fog very moist.

rain in afternoon. Clear for short time at 20.00 hrs. but heavy
Total at intervals through night remained thick, clearing at dawn.

M.C. SC GSW MT ST
Thurs. Sept 3,.. -1 43 -104 -30 +13 +0.1

Date Tuesday Sept. 3-4/40 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
6095	HD 191366	19 15.9	63 02	I-122	Astra II	Set .010 B	22.5	19 52	21 15	4	
6096	" 186672	19 40.7	60 19	"	"	"	22.5	21 23	22 35	1	
6097	" 201344	21 03.9	59 01	"	"	"	22.5	22 40	00 00	2	
6098	" 222407	23 35.2	63 10	"	"	"	22.5	00 06	01 06	3	
6099	" 223057	23 41.2	62 43	"	"	"	22.5	01 10	02 36	4	
6100	" [illegible]	[illegible]	63 11	"	"	"	22.5	02 36	03 [illegible]	1	
6101	" 170[illegible]	[illegible]	57 19	"	"	"	22.5	04 [illegible]	05 06	2	

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 30 W	6° 6	1-2	7.73	F_5	1-2-1	KSA. 17 H
1 27 W	60 24	2	6.70	A_2	1-2-1	" " H
1 30 W	59 11	2	7.30	A_0	1-2-1	" 18 H
0 [illegible]	[illegible]	2	6.91	A_2	1-2-1	" 19 H
1 [illegible]	[illegible]	2-3	7.54	A_0	1-2-1	" 1-1
[illegible]	[illegible]	3	[illegible]	B_0	1-2-1	" 8 M
[illegible]	[illegible]	2-1	[illegible]	B_2	1-2-1	" 5 M

	MC	SC	GSW	MT	ST
Sep 4	+10	-145	-108	-33	+14 +0.1

Date Wed. Sept. 4-5, 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle	
6102	H.D. 182010	19 17.6	17 34	I-12½	Ortho II	.010	+23.9	19 30	20 14	3	
6103	193154	20 50.2	47 53	"	"	"	+24.5	20 23	21 23	1	
6104	201114	21 03.7	47 39	"	"	"	+24.5	21 30	22 56	1	
6105	201269	21 03.3	47 47	"	"	"	+24.5	23 04	00 26	3	
6106	BM Cas.	00 48.6	63 33	"	"	.020	+24.5	00 38	04 46	4	

Pointer at 178

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 27 E	17 38	1-2	6.84	A0	1-2-1	K.S.A. 87 M Thin haze
0 50 E	48 03	2	7.23	A5	1-2-1	" 40 Y
0 34 W	47 49	2	7.50	A0	1-2-1	" 40 Y
2 00 W	47 56	2	7.50	A0	1-2-1	" 40 Hd
2 35 W	63 45	2	9-		K-1-K2	M Only for 1st-3rd. Ended spectrograph early tracking 5 pic

Sept 5

	MC	SC	G.S.hi	MT	ST
10	-1:46	-1:14	-32	+14	+0.1

Date Thursday Sep. 5-6 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dec
6107	HD 165538	18 00.7	27 06	I-12½	Ast II	.010	+21.7	19 25	20 37	1	
6108	183339	19 24.0	57 19	"	"	"	+21.8	20 43	21 17	2	
6109	187748	19 46.5	59 10	"	"	"	+21.8	21 21	22 49	1	
6110	201429	21 04.4	59 37	"	"	"	+21.8	22 53	00 25	1	
6111	207990	21 48.1	61 09	"	"	"	+21.9	00 30	01 30	2	
6112	3264	00 30.7	18 00	"	"	"	+21.8	01 35	02 55	1	
6113	17086	02 39.5	60 09	"	"	"	+21.9	03 01	03 41	2	
6114	17688	02 45.2	60 03	"	"	"	+22.0	03 46	05 12	3	
	Focus test		with the Lens								

Pointer at 5.6

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 17 W	27 06	1-2	7.22	A_2	1-2-1	K.S.A. 62 M
	0 35 W	57 54	1-2	6.41	B_8	1-2-1	" 17 M
	1 45 W	59 16	1-2	7.22	G_0	1-2-1	" " H
	2 02 W	59 40	1-2	7.52	A_0	1-2-1	" 18 Y
	2 44 W	61 21	2	7.19	A_2	1-2-1	" " Y
	1 06 W	48 13	1-2	7.42	A_0	1-2-1	" 20 M
	0 17 E	60 18	2	6.82	A_5	1-2-1	" 9 Y
	0 56 W	60 13	2	7.44	A_3	1-2-1	" " Y

	MC	SC	G SW	MT	ST
Sept 6 10	-1:47	-1·19	-30	+13	+0m1
Sep 7 10	-1 48	-1 23	-33	+13	+.1

Date Saturday, 7-8, 1940, M-Bs Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
							B				
-6115	BD 63° 0110	0 48.6	+63 33	I-12	Eastman II	.024	+19°.3	21 54	23 20	1	-6
		1940 Sept 8-9	Sunday		Bs		Cloudy, showers				
	M	1940 Monday	Sept 9-10				Light rain and fog				

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
About 40 minutes		M	showers	M 13,	B Gg, M 57 with 74", Bs showers & with 4" Pointer at 14.03
	+63 46	1	9.1	½-½	Cloudy at 22 30 rain and thunder and lightning Closed dome at 23 30 Shut shutter on Plate box in dome.
					MC SC SW MT_s ST_m
Sep. 9	10				−1 50.8 −1 31.4 −19.1 +120 +0.1 Took off at 2.0 Took off at 0.7 Reset
					GSW
Sep 10	10				−1 51.3 −1 28.5 +19.0 +11.1 +0.1 Reset

Date Tuesday Sep 10-11 1923 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Hilt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
6116	H.D. 177599	17 00.3	15 35	I-12	Seed 5	.010	+15.0	19 36	20 [illegible]	[illegible]	3
6117	191855	20 06.9	30 09	"	"	"	+15.0	20 50	[illegible]	[illegible]	4
6118	192684	20 11.0	32 03	"	"	"	+15.0	21 53	[illegible]	[illegible]	2
6119	210170	22 03.4	17 04	"	"	"	+15.0	22 59	0025	[illegible]	1
6120	218565	23 03.6	44 01	"	"	"	+13.0	00 30	01 [illegible]	[illegible]	2
6121	3924	00 36.7	58 13	"	"	"	+15.1	01 24	02 [illegible]	[illegible]	4
6122	5638	00 53.0	46 31	"	"	"	+15.1	02 09	02 [illegible]	[illegible]	2
6123	16855	02 37.1	43 07	"	"	"	+15.0	03 24	03 [illegible]	[illegible]	1
6124	21769	03 25	58 24	"	"	"	+15.0	04 30	0 [illegible]	[illegible]	3
[illegible]	Focus test outside the Lab							9-12			

Partly cloudy

Pointer at 10.8

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 46 W	15 38	0	6.74	A0	1-2-1	[illegible]
0 41 W	30 36	0	6.70	B9	1-2-1	" 6 M
1 16 W	32 43	0	6.69	B9	1-2-1	" " M
1 02 W	17 16	0	6.98	A0	1-2-1	" 66 Y
1 15 W	44 14	0	6.36	A0	1-2-1	" 424
0 28 W	58 05	0	6.11	B9	1-2-1	" 8 M
1 27 W	46 44	0	6.75	A0	1-2-1	" 20 M
0 46 W	43 16	0	6.72	A2	1-2-1	" 22 M
0 46 W	58 33	1	6.33	A2	1-2-1	" 9 M

		MC	SC	GSW	MT	ST
Sep. 11	10	-1 41.9	-1 22.7	+17.5	+11.3	+00

Date Wednesday Sep 11-12 1912 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6125	H.D. 176166	18 50.3	32 57	I 12½	Seed II	.010	+13.2	20 05	21 01	3
6126	176165	18 35.0	47 43	"	"	"	+13.0	21 06	22 28	2
6127	203991	21 20.5	18 02	"	"	"	+13.5	22 32	00 02	3
6128	BD +3° 0110	20 48.6	63 33	"	"	.024	+13.5	00 20	(4 00)	4
								took 00 50 as exposure centre		
				9 hours	Sept. 12-13.					
					Cloudy all night-L					

Pointer at 9.1

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 11 W	33 02	1-2	6.91	A_2	1-2-1	K.S.A 63 Y Pier light [illegible]
0 57 W	47 53	Variable 1-2	7.42	G_5	1-2-1	" 104 H
1 47 W	18 13	1-2	7.47	A_0	1-2-1	" 89 H
(2 17 W)	63 -25	1-2	9.1	-	1½-1-½	M Sky cloudy by 10. Star [illegible] Pole at 10. Sky

		MC	SC	GSW	MT	ST
Sep. 12	10	-1 52.3	-1 36.2	+17.5	+12.^{s}1	+0.^{m}1
Sep. 13	10	-1 52.5	-1 39.8	+17.1	+13.^{s}2	+0.^{m}1

Date Friday September 13-14/40 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
6129	H.D. 177931	19 01 6	45 45	I-12½	Astra II	Set 010	16.0	*19 23	20 33	1	1h 11
	" 196833	20 34 8	43 58	"	"	"	16.5	20 38	—	2	

Pointer set at

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 31 W	45 51	2	6.80 B_0	1-2-1	KSA 38 Hd Light clouds
	44 08	2	6.62 B_0	1	~~KSA 46 A4~~ Froze. clouds, thicker, higher
					Waited until midnight, sky still hopeless
					* Sidereal time read directly from the telescope.
					Starting delayed by uncertain sky. Found Strömgren stopped, could it be that someone forgot to wind it? While setting on first star, it decided to play hide and seek behind some clouds, more delay

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
		Saturday -	Sept	14-15	1940		M - Bz -				
					5 visitors - Bs demonstration						

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				HC SC G S W HT ST Sep. 14 10 -152.9 -143.1 +16.1 +16.4 +0.2
rain with thunder showers				Sep. 16 10 -154.4 -150.4 +11.2 Reset +13.2 +0.2
at evening.				Reset +00.2
telescope				

Date Monday, Sept 16-17, 1940, M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
- 6130	HD 193637	20 16·2	+33 37	I-12	Astro II	·029	+19°.1	19 20	21 24	3
- 6131	219113	23 08·3	+02 08	—	—	—	+19.0	21 32	00 32	4
- 6132	BD 63° 0110	00 4°.6	+63 33	"	"	"	+19.0	00 40	03 40	1
6133	HD. 18376	02 57.1	+62 38	"	"	·010	+19.0	03 47	06 11	2

Pointer at 13·78.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21 13	0 33W	33 45	2-1	8·89	A	½+½
33 4	0 49 W	+02 22	2	9.0	G5	½-1-½
1	2 16 W	+63 45	2	9.09	-	½-1-½
2	1 38 W	+66 46	2	7.37	B3	1-2-1

		Ml	SC	GSW	MT_s	ST_m
Sep. 17	10	+05.8	-1.50.7	+12.8	+1.8.5	+0.2

Date 1940 Sept 17-18 Tuesday Bs-L **Julian Day** 9890

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
G134 (51)	H.D. 185,037	19.32	+36°43	1-12	Astra II	Set .010 ✓	+21°7	19^10	19^40		3
G135	186,377	19.38.9	+32°11	"	"	" ✓	+21.6	19^44	20^14		4
G136	196,821	20.34.7	+21°28	"	"	" ✓	+21.6	20^18	20^		1
G137 (21)	201,6.6	21.05.6	+09°38	"	"	" ✓	+21.6	21^00	21^34		2
G138 (15)	205,924	21 33.5	+05°19	"	"	" ✓	+21.7	21^39	22^11		3
G139	210,502	22 05.7	+11°08	"	"	" ✓	+21.8	22^14	23^19		4
G140	217,459	22 55.1	+02°29	"	"	" ✓	+21.7	23^18	23^52		1
G141	2815	00 17.1	+41°57	"	"	"	+21.7	00^03	00^37		2
G142	5944	00 53.8	+37 17	"	"	"	+21.7	00^46	01^35		3
G143	21203	03 [illegible]	+39 54	"	"	"	+21.8	01^43	02^07		4
G144	21427	03 22.2	+39 02	"	"	"	+21.8	02^12	02^36		1
G145	21769	03 [illegible]	+38 26	"	"	"	+21.8	02^45	03^05		2
G146	21951	03 [illegible]	+12 17	"	"	"	+21.8	03^10	03^40		3
G147	21590	03 [illegible]	+10 21	"	"	"	+21.8	03^43	04^13		4
G148	217[illegible]	03 [illegible]	+37 [illegible]	"	"	"	+21.8	04^[illegible]	05^[illegible]		3

Wed Sept 18-19 Hd-L Partly cloudy 19.30 - 20.30 with

clock of humidity recorder stopped (wound it hastily)
Sidereal clock - L
Pointer at 15.8

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
−0 15	+36°51	0	5.84	B9	1-2-1	BSC (H) all these looked too faint
+0 13	+32°14	1	5.95	A2	1-2-1	" (Y) dye used for backing of plates very sticky
−0 10	+21°37	0-1	5.94	A0	1-2-1	" Hd
+0 06	+09°46	1	6.05	A2	1-2-1	" " took wrong * of the rest
+0 06	+05°30	1-2	6.08	F0	1-2-1	" H found sidereal circle 10m fast while all the *
+0 17	+11°20	2	7.10	K5	1-2-1	" (Y)
+0 31	+02°41	3	6.96	K0	1-2-1	" (Y)
0 22 E	+43 10	2	6.43	A0	1-2-1	KSA1 0(Y)
0 07 W	+57 30	2-3	6.80	A2	1-2-1	" 8 M took first at 70°
1 45 E	+60 02	3-4-5	6.43	B8	1-2-1	" 9 (M) Image tilted by wind seeing separates the beams
1 18 E	+59 08	5-6	6.06	A0	1-2-1	" 9 M
0 53 E	+58 33	5	6.33	A2	1-2-1	" 9 Hd
0 10 E	+12 25	3	7.00	G5	1-2-1	" 71 (Y)
0 28 W	+16 33	3-4	7.02	A0p	1-2-1	" 71 M
1 22 W	+27 32	3	7.12	B0	1-2-1	" 71 Hd S proceeding

Clouds coming from N.W., then mostly cloudy, then thick.

Date 194, Sept 20-21 Friday, Es **Julian Day** 993

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
		Tuesday, Sept 17-20, 1940					M			
					Cloudy all evening with occasional					
G 145 151	HD [illegible]	19 40 7	+60° 19	1-12	Astro	set .010	below +25° C	19 [illegible]	2[illegible]	1

Ending Time P.S.T.

Pointer at 18.2 Cloudy earlier

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
						MC S.C. GSW HT ΔT_m
						Sep. 18 10 +04.5 −1 52.0 +10.8 +16.5 +0.2
1 1/2 hrs of clear but very hazy sky						19 10 +04.4 −1 53.1 +11.3 +16.4 +0.2
						20 2 +04.0 −1 54 +13.2 +15.5 +0.1
+2 30	+60°25	1+	6.7	A2	1-2 −1	Scattered clouds + light haze KJA 17 [illegible] 6.7 (cl plate Gone) 20 17 – 20 57 Sky thick at middle of exposure
						Cloud at 23m −1 30
						Sep. 21 10 +04.0 −1 55 +11.3 +14.0 +01

Date 1940 Sept 21-22 Sat. Hd-Bs Julian Day 9352

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.	
- 6146	MWC 383 HD 209296	21 57.2	56 14	I-12	Astra II	.015	20.7	22 28	23 38	2
- 6147 (5)	MWC 402 HD 223,501	23.45.0	+61°39	—	—	—	+20.7	00 06	01 36	3
- 6148	MWC 23 HD 12,302	01.55.6	+59°12	—	—	—	+20.1	01 42	03 13	4
- 6149	MWC 63 HD 20,027	03.07.9	+48°19	—	—	—	+20.8	03 23	04 43	1
6150 (3)	44, 497	06.17.0	+12°37	—	—	.010	+20.8	04 53	05 27	2
(7)	Focus test	outside	40'	base						

150 Visitors. Showed Ring neb, M2
M showed double cluster, saturn, Jupiter with

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	+1 46	56 26	2	8.1	B(s)e	1-1-1	
	+1 35	+61°53	2	8.2	B3e	1-1-1	
	+1 02	+59°33	2	8.2	B3e	1-1-1	
	+ 20	+48°18	2-1	7.7	Em	1-1-1	
	−1 02	+ 12°35	1	6.25	Fo	1-2	KsA 74
						9-12	

Date Sunday, Sept. 22-23, 1940 B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6151	H.D. 177459	18 59.7	17 24	I-12	Astra II	.010	+21.7	18 56.	20 18	4
6152	189377	19 57.6	41 59	"	"	"	+22.0	20 22	21 10	2
6153	200407	20 58.2	43 47	"	"	"	+22.0	21 14	22 16	1
6154	203991	21 20.5	18 02	"	"	"	+21.9	22 21	00 01	3
- 6155	BD 63 0110	0C 18.6	63 33	"	"	.020L	+22.0	00 13	03 13	1
6156	H.D. 19780	03 05.9	12 40	"	"	.010	+22.0	03 20	04 16	2
6157	21641	03 24.5	47 31	"	"	"	+22.0	04 20	05 10	4

Pointer at 16.1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 06 W	17 27	0	7.05	F5	1-2-1	N.S.A 27 Y
	1 07 W	42 06	0-1	6.54	A2	1-2-1	" 31 Y
	1 07 W	13 56	1	6.78	A2	1-2-1	" 10 Y Started photo cell
	2 29 W	14 13	1	7.47	A0	1-2-1	" 51 M equator, Rachel Ann on the Tele. Sky
	2 13 W	63 45	1-2	9.09		½-1-½	Fog M
	0 59 W	12 48	1-2	7.22	G5	1-2-1	KSA 71 Y
	1 34 W	47 40	1-2	6.75	B9	1-2-1	" 23 M

		MC	SC	GSW	M.T. s	S.T. m
Sep. 23	12	+03.5	-157.6	+07.7	+13.1	+0.2

Date Monday, 9/24 23-24, 1940, M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6157 8	B.D. 63 0110	0h 48m6	+63° 33'	I-12	Astra II	.020	+21.6°	21 24	22 30	)
		1940	Sept 24-25 Tues		Bs-L		Cloudy			
Wed	Sept 25-26	Hd-L	Cloudy all evening with occasional brief							

Clouds after sunset started to open several times but each time clouds came up.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
22 [illegible]	E 26 E	63 45	1	9.1	½ - ½	Pointed at 15.96 Snow and haze from 21.58 on, thick at 22.30
						Closed down at 22.40.
						MC SC GSW MT ST
						Sep. 24 13 +02.9 -1 58.8 +07.8 +10.2s +0.1m
						25 10 +04.4 +05.1 Rent +07.8 +09.7s +0.0m
2 trip	clear throughout.					
						26 10 +02.7 +04.5 +21.8 +10.2 +0.0

Date Thursday Sep. 26-27, 1940 B-B5 Julian Day 9899

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
6158	H.D. 123415	18 40.1	+47 29	I-12	Astro II	.010	+11.8	18 43	19 17	2	1h 11 4
6159	186622	19 40.7	60 19	"	"	"	+11.8	19 54	21 30	4	1h 54
6160	186760	19 41.3	57 46	"	"	"	+11.7	21 34	22 30	—	2h 1 5
6161	207990	21 48.1	61 09	"	"	"	+11.7	22 36	0 00	3	2 9
6162	3881	00 36.3	+59° 23	"	"	✓	+11°.7	00 05	01 45	1	
6163	17,531	01 44.3	+63° 00	—	—	✓	+11°.7	01 50	03 30	2	
6164	21,714	03 25.7	+52° 32	—	—	✓	+11.8	03 34	04 32	3	
6165	34,255	05 11 0	+62° 33	—	—	✓	+11.8	04 31	05 35	4	
	Focus test	outside	two' base								

Pointer at 5.2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 12 W	47 31	1	6.95	A_2	1-2-1	SA. 38 H
	1 54 W	60 25	1	6.70	A_2	1-2-1	" 17 H Disp. 2.3-4?
	2 54 W	57 54	1	6.81	F_8	1-2-1	" 17 H Extends diffuse on N.
	+2 19	61 19	1	7.19	A_2	1-2-1	" 18 Y display 21-22'
	+1 12	+59°35	1-2	7.43	A_3	1-2-1	8 (H)
	+0 49	+63°09	1-2	7.50	G_0	1-2-1	— 9 H
	+1 10	+57°46	1-2	6.53	F_5	1-2-1	— 9 H
	+0 57	+62°34	2-3	6.95	K_2	1-2-1	— 10 H
						9-12	

		MC	SC	GSW	MTW$_s$	STW$_m$
Sep. 27	13	+02.9	+03.5	+06.8	+09.8	+0.0

Date Friday, Sept 27-28, 1940, M-B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B.	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End	
-6166	HD.193637	20 16.2	+33 37	I - 12	[illegible] II	.020 L	+14.6	18 45	21 01	1		
-6167	BD 63°0110	0 48.6	+63 33	—	—	.020 L	+14.5	21 12	00 12	2		
6168	H.D. 3264	00 30.7	48 00	"	"	.010	+14.6	00 19	01 23	3		
6169	17330	02 41.8	29 17	"	"	"	+14.6	01 31	02 11	1		
-6170	32419	04 58.0	+11 07	"	"	.020 L	+14.6	02 19	05 19	2		

Sat Sept 28-29 44-in. Bs Cloudy about 70 Va

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			Pointer at 10.1 REMARKS
21 01	0 53W	33 46	2	8.6	A	½-1-1½	
2	0 29E	63 45	2	9.1		½-1-1½	Considerable auroral activity in N sky first noted between 22:30 and 23:00. — Last faint until about 1:00.
03	1 00W	48 14	2-3	7.42	A_0	1-2-1	
1	0 23E	29 26	3	7.17	B_9	1-2-1	
2	0 30W	41 13	2-3	8.9	A_0	½-1-1½	Binary

	MC	SC	GSW	MT	ST
Sep 28 10	+03	+02	+05	+10	0.0

Visitors Raymond Shade
Hal " Telescope

1

Date 1940 Sept 28-29 Sat H.Bs **Julian Day** 9901

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6171 (5)	H 8 5638	00:53.0	+46°31'	1-12	Astra II	Set .010	+17°.5	00 53	01 53	3
6172	16,108	02:30.2	+41°58'	—	—	— ✓	+17°.5	01 57	02 47	4

Clearing after 0^h

Hour Angle End	Declination	Seeing	Ptg. Mag.		Pointer at 12.2	REMARKS
+1^h 12	+46° 42	1-2	6 75 A0	1-2-1	KSA 20	
+0^h 29	+ 42° 58	1	6.67 B8	1-2-1	22	cloudy at end

Date Sunday, Sep. 29-30/40 B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
6173	H.D. 177595	19 00.3	27 10	I-1a	Astra II	.010	+16.1	18 43	19 45	1	
6174	177783	19 01.8	15 42	"	"	"	+16.2	19 49	21 35	2	
6175	203519	21 11.3	57 53	"	"	"	+16.4	21 32	22 32	3	
6176	219699	23 12.8	30 29	"	"	"	+16.4	22 37	00 07	4	
6177	13201	02 03.9	16 46	"	"	"	+16.4	00 12	01 12	1	
6178	8710	01 20.8	43 11	"	"	"	+16.4	01 18	02 30	2	
6179	15365	02 23.3	45 34	"	"	"	+16.4	02 35	04 00	3	
6180	29537	04 34.0	29 47	"	"	"	+16.4	04 05	05 21	4	

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 50 W	27 13	1-2	7.03	B_9	1-2-1	KSA 63 Y
2 39	15 47	1-2	7.38	A_5	1-2-1	" 67 Y
1 37 W	58 04	1-2	7.02	A_0	1-2-1	" 68 Y
1 19 W	30 41	1-2	7.44	F_0	1-2-1	" 69 Y
0 36 E	16 56	1	6.85	F_5	1-2-1	" 70 Y
1 25 W	43 23	1-2	7.27	F_2	1-2-1	" 21 Y
1 53 W	45 47	1-2	7.55	G_5	1-2-1	" 22 Y
1 03 W	29 52	1-2	7.20	F_0	1-2-1	" 49 Y
						MC SC GSW MT ST
						Sep. 30 10 +04.0 +01.0 +05.8 +04.0 +12.4 +0m.0

Date Monday Sept 30-Oct 1, 1940 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
6181	HD 183262	19 23.6	17 38	I-12	a-m II	010	17.0	18 43	19 33	1	1h 29m
6182	HD 190593	20 00.6	16 23	"	"	"	16.9	19 41	21 21	2	W 1h 40m
6183	HD 209439	21 58.3	32 54	"	"	"	17.0	21 25	22 15	3	1h 37m
6184	HD 214946	22 36.7	44 29	"	"	"	16.9	22 22	23 32	4	W 1h 45m
6185	HD 223057	23 41.2	62 45	"	"	"	17.0	23 42	01 12	1	"
— 6186	M.W.C. 23	01 55.6	59 12	"	"	.015	17.0	01 45	03 15	2	"
— 6187	" 76	03 44.3	63 11	"	"	"	17.0	3 20	04 50	3	2h W
6188	H.D. 33204	05 03.5	27 55	"	"	.010	17.0	04 53	05 27	4	"

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
W 29m	17 43	0-1	6.93	A_2	1-2-1	
W 1h 40	16 30	1	7.59	A_0	1-2-1	Star runs too faint. Field OK.
W 37m	33 05	1	6.95	A_3	1-2-1	Aurora and cloud all evening. Streamers at 23.20
W 1h 15	44 40	1	7.26	A_5	1-2-1	
1.30 W	62 59	1-2	7.54	A_0	1-2-1	Use δ for a Ce on the program
1.39 W	59 23	1-2	8.2	B_{30}	1-1-1	Spiral with finding the star, mistake
1.24 W	63 18	2	8.1	B_{3C}	1-1-1	
0.43 W	27 67	1-2	6.05	A_3	1-2-1	B.S.C.

	MC	JC	GSW	MT	JT
Oct. 1	+04.5	-00.2	+06.2	+14s.2	+0m.0

Date 1940 October 1-2 Tuesday, Bs-L **Julian Day** 2904

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
6189 B1	H2 179 506	19 08.1	+17°52	1-12	Astra II	.010	+16°.3 C	19 07	21 37	1	
6190	211,139	22°10.6	+29°04	—	—	—	+16°.2	21 40	23 40	2	
6191	224,380	23:52.3	+47°43	—	—	—	16.1	23 44	01 44	3	
6192	15703	02 268	34 06	"	"	"	16.1	01 52	03 10	4	

Delayed opening a/c clouds

Pointer at 11.2

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
+2 52	+17°53	1-1	7.50	F0	1-2-1	KSA 87 (V) some clouds + fog 19^45 - 20^10
+1 54	+29°16	1	7.52	F5	1-2-1	" 66 (H)
2 16 W	+47°57	1	7.46	A0	1-2-1	" 43 (H) clouds
1 54 W	34 17	1	6.6	G5	1-2-1	BSC 14 Hazy, sky thickening, light fog this start of Equinox. Shut 3:10

		MC	SC	GSW	MT	ST
Oct 2	10	+05.0 added 0.2 wt	-01.6 took off 0.1 wt	+07.0	+15.6 s	+0.1 m

Date Wednesday, Oct 2-3, 1940, M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End	D
-6193	HD 187949	19 47.5	-14 51	I-12	Astra II	.015 L	+17.1	18 45	19 55	1		
-6194	BD 26 3896	20 21.6	+27 02	"	"	.020 L	+17.1	20 02	23 02	2		
6195	HD 3264	0 30.7	48 00	"	"	.010 L	+17.1	23 08	00 18	3		
6196	" 6362	01 22.3	43 32	"	"	"	+17.1	00 45	00 59	4		
6197	" 17330	02 1.6	29 17	"	"	"	+17.2	01 [illegible]	01 [illegible]	1		

Pointer at 12:08.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 35 W	-14 45	2	6.50	A 2	½-1-½	very thin clouds over southern half of sky
	3 09 W	+27 10	2-1	9.46	-	½-1-½	quite hazy at first, but cleared up afterwards.
	0 15 W	48 13	3	7.42	A 0	1-2-1	Hazy
	0 04 W	43 44	2-3	6.54	B 9	1-2-1	
	0 24 E	29 26	2-3	7.17	B 9	1-2-1	Sky clouding over quickly from 0h40 to 0h50
							Sky remains thick cloud at 2.45

	MC	SC	GSW	MT	ST
Oct 3	10 +05	-05	+06	+17	+0.0

Date 1940 Oct. 3-4 Thurs. Bs-B Julian Day 9906

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6198	HD 190.365	19:59.4	+16°51	I-12	Astro I	Set .010	+17°1 C	18^32	19^52	3
6199	196 153	20:30.3	+44°56	—	—	—	+17°.2	19^55	20^45	4
6200	209,998	22:02.1	+44°46	—	—	—	+17°1	20^41	21^15	1
6201	217,695	22:57.4	+47°35	—	—	—	+17°.2	21^26	22^50	2
6202	222, [illegible]	23:36.2	+57°17	—	—	—	+17°.2	22^5[illegible]	00^00	3
6203	4362	00:40.9	+59°02	—	—	—	+17.3	00^02	01^15	4
6204	16780	02 36.3	+47 51	"	"	"	+17.3	01^21	02^51	1
6205	17922	02 47.7	+42 11	"	"	"	+17.3	02^35	4^25	2
6206	33441	05 05.2	+62 59	"	"	—	+17.2	04^31	5^39	4
	Focus test - Outside this base - Focus 16.7 [illegible] 2032 7-12									

Pointer at 12.1 Strong wind at sunset

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	+0^{24}	+16°57	1	6.8	A2	1-2-1	KSA 88 (Ha) Haze
	+0^{46}	+44°59	1-2	6.62	A0	1-2-1	" 40 (H)
	−0^{15}	+44°58	2	6.14	A2	1-2-	" 41 (H)
	+0^{24}	+47°37	2	7.56	A0	1-2-1	" 42 (H) Aurora
	+0^{5}	+57°30	2-3	7.2	A0	1-2-1	" 19 (H) Mist
	1^{05} W	+59°14	2-3	7.27	G5	1-2-1	" 8 (H)
	0 46 W	+48 00	2	7.34	G5	1-2-1	" 22 H
	2^{10} W	+42 20	2	7.43	F5	1-2-1	" 22 H Fog
	0^{15} W	+63 03	2-3	7.02	F0	1-2-1	" 10 H

		MC	SC	GSW	MT$_s$	ΔT$_m$
Oct 4	10	+05.1	−05.6 wt 2.0	+04.6	+17.4	+0.1

Date Wed Oct 4-5, 1940 HA - B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
6207	HD 179648	19 08.3	21 23	I-12	Astra II	0.10	16.5	18 33	19 03	4	W 29m 2
- 6208	MWC 320	19 41.3	5 44	"	"	016	16.1	19 09	21 39	1	W 2h 37
6209	HD 216562	22 48.8	30 14	"	"	010	16.3	21 45	23 15	2	W 1h 01
- 6210	MWC 10 HD 63343	0 59.4	65 26	"	"	"	16.2	23 23	00 23	3	0 01 E
- 6211	MWC 13 HD [illegible]	1 24.6	62 51	"	"	"	16.3	00 29	01 59	4	1 01 W
- 6212	MWC 29 HD 13661	2 08.1	54 04	"	"	.016	16.2	02 04	04 30	1	1 49 W
- 6213	MWC 55 HD 20336	4 [illegible]	41 53	"	"	"	16.2	04 25	05 35	4	1 05 W

Pointing adj. 77

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
9 34	W 29^m	21 26	1	5.90	A0	1-2-1	B.S.C
21 39	W 2^h 33	5 50	1	8.5	B5ne	1-1-1	
23 5	W 1^h 01	30 26	1	7.52	A2	1-2-1	
	0 01 E	65 40	2	7.1	B5e/b	1-2-1	
	1 09 W	63 02	2	7.5	B5e	1-2-1	
	2 47 W	54 14	1-2	8,6	B5ne	1-1-1	
	3 05 W	41 57	1-2	7.6	B3ne	1-1-1	Can't check field, not [illegible]

Det	5	10^h	MC	SC	GSW	ST	MT
			+05	-08	+06	+0.1	+18

Date Saturday, Oct 5-6 1940, M-B Julian Day 2905

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
							B				
-6214	BD+63°0110	0 48.6	+63 33	J-12	Astra II	.022	+15°	21 44½	23 50	3	19E
		Sunday, Oct. 6-7 B-1 Cloudy with rain.									

Hazy at first — clearer later
About 100 meters
M showed M2, Piggui with 74 inch.
N showed M31, Pollux, Castor, Procyon with 4 inch.

Zoning Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						Points at 10·80
33	0 19E	63 44	3	9·1	- ½-1-½	hazy near horizon at first, haze moving, Orion almost lost at end
						Thickened up after 0h

	MC	SC	GSW	MT s	ST m
Oct 7 10	+05·1	-09·4	+03·0	+19·0	+0·2

Date Monday, Oct. 7-8, 1940, M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6215	~~BD. 24,3796~~	20 21.	+27 02	7	12	~~Eastman~~	.020 L		15 54	

Clouds of sunset and for about two hours after

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
		27 11	1	8.8		½	Clouded up thick shortly after exposure started. Cloud dome. Occasional clear spells interspersed by heavy showers of rain. Brightness and glow seen in north through clouds. Heavy bank of cloud coming up in NW at 23 hrs

	MC	SC	GSW	MT	ST
Oct. 8	+4.5	-9.6	+5.2	+18.0	0.0

Date 1940 Oct 8-9 Tuesday Bs-L **Julian Day** 9911

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6215 K1	HD 188,074	19:48.3	+47° 09	1-12	Astra II	50μ .010	+13.4C	18 20	19 10	1
6216	187,748	19.46.5	+59° 10	"	"	"	+13.4	19 16	20 52	2
6217	201,344	21:03.3	+59° 01	"	"	"	+13.3	20 55	22 45	3
6218	222,407	23:35.2	+63° 10	"	"	"	+13.4	22 48	23 58	4
6219	3156	00:16.1	+65° 36	"	"	"	+13.4	00 03	00 53	1
6220	17818	02 46.5	48 09	"	"	"	+13.4	01 00	01 40	2

Pointer at 9.2

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
+0 13	+47° 14	1	6.52	F0	1-2-1	KSA 39 (H) ~~Hard~~
+1 57	+59° 16	1-2	7.22	G0	1-2-1	" 17 (H)
+2 38	+59° 12	1-2	7.30	A0	1-2-1	" 18 (H)
+1 19	+63° 23	1-2	6.91	A2	1-2-1	" 19 (H)
1 05 W	65 49	1-2	6.7	G5	1-2-1	BSC H
	48 18	1-2	7.51	K0	1-2	KSA. 22 H clouds coming over at 1.30 thick at 1.40 Drizzle till 3.00 still thick or closed

		MC	SC	SW	MT	ST
Oct. 9	10	+04.5	-11.5	+22.0 Reset to local S.T.	+20° 0	+0m 2

Date 1940 Oct 9-10 Wed Hd-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
- 6221	MWC 376 HD 206773	21 39.3	57 17	I-12	extra I	010	12.4	20 38	21 42	3	1.59m
6222	HD 216562	22 48.8	30 14	"	"	"	12.4	21 47	23 27	4	1.43
6223	HD 8671	01 20.4	42 57	"	"	"	12.3	23 32	0 02	1	1.23m
- 6224	MWC. 49	02 24.4	70 30	"	"	.015	12.4	00 10	01 40	2	1.3 "
- 6225	" 76	03 44.3	63 11	"	"	"	12.4	01 45	03 15	3	1.1 "
- 6226	" 79	03 49.3	44 38	"	"	"	12.4	03 20	04 38	4	1.14 "

Mostly cloudy Tele 20 00

Pointer at 8.4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	W 59m	57 28	1	7.0	Bone	1-2-1	
	W 1h 33	30 27	1-2	7.52	A2	1-2-1	
	E 23m	43 09	2	6.58	F8	1-2-1	
	0 10 W	70 42	2	8.0	B4nc	½-1-½	
	0 25 W	63 17	2	8.1	B3c	½-1-½	
	1 44 W	44 46	2	7.8	B3nc	½-1-½	Haze, light clouds, star gone at 04 30

	MC	SC	MT	ST
Oct 10	+4.2	−13.6	+.1	+0.2

Date Ithaca Oct. 10-11, 1940 B-B5 Julian Day 9912

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6227	H.D. 181119	19 14.1	30 50	I-12½	Astra II	.010	+12.5	18 19	19 05	1
6228	187372	19 44.6	47 39	"	"	"	+12.5	19 10	20 50	2
6229	204211	21 22.0	62 34	"	"	"	+12.5	21 59	22 29	3
6230	222642	23 37.3	44 13	"	"	"	+12.5	22 34	23 54	4
(3881 c)	3881	00 36.3	59 23	"	"	"	+12.5	00 00	01 ??	2

Center at 9.3 8.4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 ^{5} W	30 54	1-2	6.48	A_0	1-2-1	USA. 63
	2 ^{05} W	47 46	2	7.59	M_a	1-2-1	" 39
	2 ^{07} W	62 43	1-2	7.20	A_0	1-2-1	" 18 Light clouds
	1 ^{16} W	44 25	2	7.18	F_0	1-2-1	" 43 " "
	+2 ^{43}	+59° 34	2-3	7.43	A_3	1-2-1	" 8 Fog + " Losing 1 to 2 mag!

Quite hazy, still at 3h, so I'll

		MC	SC	SW	MT	ST_m
Oct. 11	13	+04.5	-16.5	+12.7	+21.2	+0.1

Date Friday, Oct 11-12, 1940, M-B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Emj
6232	H.D. 8862	1 22.3	43 32	I-12	Astra II	.010	+13.5	23 50	(00 30) 3	

Sat Oct 12-13 Hd-N
Cloudy, About 20 minutes. Showed Telescope

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
						Cloudy for first part of night. Cleared briefly at 21h, clouded again, cleared at 23h, started to open, clouds from W, cleared again at 23.30
(0" W)	43 45	3	6.54	B9	+2-1	Cloudy by 0.15 Star lost at 0.30 Closed up at 1.00
						Oct. 12 10 M&C +0.4 SC -19 SW +14 MT +22 ST +0.2
(Cloudy all night)						Found S.: Clipped — had been used for lightly

Date Sunday, Oct. 13-14 1940 B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dec.
6233	H.D. 177983	18 01.8	+15 42	I-12	Astro II	.010	+16.6	18 14	20 10	4	
6234	202319	21 11.3	57 53	"	"	"	+16.2	20 17	21 37	1	
6235	218396	23 02.6	20 37	"	"	"	+16.2	21 44	22 20	2	
6236	2888	00 27.1	42 57	"	"	"	+16.2	22 25	23 15	3	
6237	2642	01 58.7	-04 35	"	"	"	+16.3	23 23	00 17	1	
6238	15814	02 27.5	14 36	"	"	"	+16.4	00 25	01 19	2	
6239	15510	02 24.7	45 37	"	"	"	+16.3	01 25	02 41	3	
6240	29537	04 34.0	29 47	"	"	"	+16.3	02 46	04 00	4	

Monday, Oct 14-15 M-L

Rain and thunder storms all evening

Pointer at 11.+

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 19 N	15 45	1	7.38 A5	1-2-1	K.S.A. 17
	1 37 N	5 2 04	1	7.02 A0	1-2-1	" 18
	0 28 W	20 50	1	6.07 A5	1-2-1	B.S.C.
	0 02 E	43 09	1	6.43 A0	1-2-1	K.S.A. 20
	0 30 E	-04 23	1	6.92 A0	1-2-1	B.S.C.
	0 03 W	14 46	1	6.49 F5	1-2-1	K.S.A. 70
	1 27 W	46 09	1-2	7.11 A5	1-2-1	" 22
	0 37 W	29 50	1-2	7.20 F0	1-2-1	" 48

Light clouds
cloud at 3 45 until
sky clear at 4 30 when
setting on another star now
clouds appear behind
the N.W. cloud bank.

		MC	SC	SW	
Oct. 15	10	+04.6	- 24.3	+19.0	Strömgren og Olson stopped

Wt. reduced from 2.0 to 1.7

Date 1940 October 15-16 Tuesday Bs-L **Julian Day** 99 ½

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time ~~E.S.T.~~ Sid. W	Ending Time ~~E.S.T.~~	Hour Angle End	
						set ✓					
6241	HD 196.359	20:31.8	+44°03	1-12	Astro II	.010	+9.0 C	19 28.5	21 28.5		1
6242	206.212	21 35.5	+45°43	–	–	– ✓	+9.0	21 30.5	23 30.5		2
6243	222.402	23.352	+63°10	—	—	— ✓	+9°0	23 35	00 45		3
6244	16,780	02 36.3	+47°51	–	–	– ✓	+9.2	00 58	02 22		4
6245	17922	02 47.7	42 11	"	"	"	+9.2	03 31	04 08		1
6246	26311	04 04.6	33 19	"	"	"	+9.2	04 13	05 [illegible]		2
6247	36[illegible]	05 23.6	27 36	"	"	"	+9.1	05 10	06 30		3
6248	43819	06 13.2	17 21	"	"	"	+9.1	06 34	07 14		4

Pointer at 28.0 (end plug out)

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
+0 56	+44° 14	1-2	7.51 F0	1-2-1	KSA 40 Light clouds after sunset
+1 54	+45° 55	1-2	7.78 B9	1-2-1	" 41
+1 08	+63° 23	1-2	6.91 A2	1-2-1	" 19
0 16 E	+46° 36	1-2	7.34 G5	1-2-1	" 22
1 18 W	48 20	1-2	7.43 F5	1-2-1	" 22
0 58 W	33 26	1	6.91 K0	1-2-1	B.S.C.
0 59 W	27 33	1	7.47 K0	1-2-1	K.SA. 49
1 04 W	17 20	1	6.12 B8	1-2-1	" 74

	MC	SC	SW
Oct 16d 10h	+05	-27	+19

Note Sid time

Date 1940 Oct 16-17 Wed Hd-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time ~~E.S.T.~~ Sid	Ending Time ~~E.S.T.~~ W.		Hour Angle End	D
- 6249	HD 183914	19 26.7	27 40	I-12	Astra II	010	+7.8	19 36	19 52	1	W 25m	2
- 6250	HD 185037	19 32.2	36 43	"	"	"	8.0	19 57	20 27	2	53m	
- 6251	HD 197511	20 39.1	49 59	"	Astra VIII	"	7.7	20 31	22 01	3	W 1h	
- 6252	HD 205551	21 31.0	51 15	"	"	015	7.8	22 05	23 45	4	1h 2m	
6253	HD 5638	00 53.0	46 31	"	Astra II	010	8.0	00 00	01 20	1		
6254	HD 8671	01 20.4	42 57	"	"	"	8.0	01 25	02 11	2	14m	
6255	HD 21700	03 25.0	27 23	"	"	"	8.0	02 20	03 41	3	1h	

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
W 23m	27 50	1	5.34	B9	1-2-1	Note dec. star 9 took is fainter of bright doublet
W 53m	36 49	1	5.84	B9	1-2-1	
W 1 21	50 07	1	5.24	B3	5-5-5	clouds	after V III plates exposed for 120s with no filter.
W 2h 12	51 26	1	5.94	B9	4-4-4	"	
0 25 W	46 44	2	6.75	A0	1-2-1	"	
0 48 W	43 05	2	6.58	F0	1-2-1	KSA. 21 Finge
0 13 W	27 32	2	7.12	B0	1-2-1	" 47 " clouds S. Preceding thick at 03 40

closed at 5 30 still thick.

		MC	SC	SW
Oct. 17	10	+05	-29	+18

Date 1940 October 17-18 Thursday Bs-B **Julian Day** 2. 99~~9~~

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6+56 (51 H)	196.865	20 35.0	+47°43	1-12	Astra II	.010	+8.0°C	18 05	19 05	4
6+57	206	21 37.3	+57°08	–	–	–	+8°	19 26	20 26	1
6+58	204	21 22.1	+57°39	–	–	–	+8.0	20 28	21 38	2
6+59	209.149	21 56	+37°33	–	–	–	+7.7	21 42	22 32	3

Pointer at ~~26.5~~ 27.1

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
-0^{05}	+47°52	3-4	7.42 G5 1-2-1	KsA 40
$+0^{14}$	+57°21	3	7.50 F5 1-2-1	— 12 Delay in setting. 1) clouds rolling over; 2) tel. running away to south while overlapped. Wind on/and ground
$+1^{41}$	+57°51	3	7.56 F8 1-2-1	— 18 Ran up lower curtain to cut down wind as image was jumping around 5-prec brighter
$+2^{00}$	+32°+5	2	6.28 F5 1-2-1	— 65 Thick clouds at end

		MC	SC	EDW	SW
Oct. 18	10	+05	−32	-3^m15^s	+18
				(late adjustment)	
	16			−3 22	

Date 1940 Oct 18-19, Friday 46d-B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dec
- 6260	HD 188209	19 49.0	46 47	I - 12	Astra VIII	0,10	+5.0	18 22	19 52	3	
6261	HD 214946	22 36.7	44 29	"	Astra II	0,10	5.3	20 00	21 00	4	
6262	HD 214588	22 34.2	44 09	"	"	"	5.4	21 03	22 03	1	
6263	HD 223052	23 41.2	62 45	"	"	"	5.6	22 09	23 49	2	
- 6264	HD 6811	01 03.7	46 42	"	" III	"	5.6	23 56	00 [illegible]	1	
- 6265	22780	03 34.6	37 16	"	Astra II	"	5.8	00 34	00 [illegible]	4	
- 6266	23552	03 41.0	30 26	"	"	"	5.8	00 58	01 [illegible]	3	
6267	24701	03 50.5	43 02	"	"	"	5.8	01 33	02 [illegible]	1	
6268	36425	05 26.5	31 48	"	"	"	5.8	03 05	04 55	2	
	Focus 7.1	Centre Three		Four	Focus 6.16				7-12		
			Saturday, Oct 19-20, 1940,				M-N				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	W 1h 33	46 54	1	5.27	B0	5-5-5	New Program. Be impatient Shots 3m with no filter.
	E 9m	44 44	2	7.26	A5	2-1-1	KSA / RA clamping dead.
	W 56m	44 22	1	7.01	A0	1-2-1	KSA
	E 1h 36	62 58	1	7.54	A0	1-2-1	KSA
	5° W	46 56	1	4.23	138	5-5-5	new prog.
	1° 15 E	37 24	1-2	5.45	B5	1-2-1	" "
	0° 40 E	50 34	1-2	5.87	B8	1-2-1	" "
	0° 36 W	43 07	1-2	7.20	A0	1-2-1	KSA 23
		31 50	1-2	7.32	A2	1-2-1	" 49 Cloudy
							Thick by 5m

	MC	SC	E W	SW
Oct. 19 10	+06	-34	-2:37	+24

about 65 visitors, M showed β Cygni with 7½"
N " Jupiter and Saturn with 4"
Clouded up at 21h Refocused telescope and closed dome, closed late for shutter.
R.A. Clamp not acting very well.

Date Monday Oct 21-22, 1940, M-Bs Julian Day 992 ~~7~~ uncorrected

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
							B			
6268 F1	focus test						+3.0°	focus set		
-6269	BD 26 3896	2h 21.6	+27 02	I-12	IIa-F	.024	+2.8	18 20	22 36	3
-6270	BD 63 0110	0h 48.6	+63 33	—	—	—	+2.8	22 41	01 33	4
								Call it 23 50		

In closing at 3h (d. 11 clouds), moved dome shutter from NW to W, stopped to cover shutter head of Tel. Could get no response to dome-turning switch either way, so ran to dome and turned it by hand. Dome unchained, heat not on mirror (ex. in spring). Telescope clamped in both motions.

Tues Oct 22-23 Silvering

Wed Oct 23-24 Mirror forged; not put up — Observe

Hour Angle End	Declination	Seeing	Ptg. Mag.	Pointing at 22.78	REMARKS
Changed focus from 26.15 to 26.20				Oct 21	MC +66.7 SC -37.6 D.S.T. $-2^m.8^s$ S.W.s +26.9
26.20	Inaccurate			12/9	focus O.K.
2 45 W	27 10	2-0	8.8	½-1-½	
$+2^{23}$	63 45	2	9.1	½-1-½	sold. hds. $0^{16}-0^{56}$ } 1^{20} – Lim HA +25.6 Bright (pole given) } aurora seen. Had to stop driving clock & unclamp by hand RA clamps but won't unclamp.
spectrograph with tel. pointing to 20.5th.					Plate 6270 — Forgot to switch on motor bar strips until plate had had 90s exposure to lamp spectrum, so immediately stopped exposure, but not to avoid fogging whole plate. Scale had 60^s
to platform; covered mirrors.					Metronome quite unreliable for counting seconds — skips & stops.
Comet Cunningham with 4" – 4d.					

		MC	SC	(S.T. W. +0.2 Reset +21.6)	Sid W.
Oct. 22	14	+07.7	-39.9		+32.3
23	16 (~~21~~)	+08.1	-44		+39
24	10	+08	-46	+23	+34

Date Thursday, Oct. 24-25, 1940 B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
6271	H.D. 204211	21 22.0	62 34	I-12½	Astra II	.010	10.9	20 36	21 42	1	
6272	223143	23 33.0	45 39	"	"	"	10.6	21 48	23 12	2	
6273	743	00 06.7	47 34	"	"	"	10.5	23 22	00 22	3	
6274	11884	01 51.7	46 36	"	"	"	10.7	00 57	01 41	1	
6275	17777	04 18.0	33 54	"	"	"	10.7	01 31	02 11	2	
~~6276~~	30433	~~04 42.3~~	~~32 23~~	"	"	"	10.7	02 10		3	
		Friday - Oct 25 -		1940							
	Screws tightened on spectrograph.						N side screws		4/6 turns		
							S " "		3/6 "		
							Z and Astro.		2/6 "		
6275 T,					Setting 1½		Telescope		60° N - 2½ E		
					5		"		60° N 2½ E		
					8½		"		50° N 2½ W		
									2½ E		
									2½ W		

Pointer at = 8.5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 15 W	62 44	1-2	7.20 A0	1-2-1	N.S.A. 18 Cloudy earlier
	1 34 W	45 53	1-2-3	7.34 G5	1-2-1	" 43 Seeing variable
	2 09 W	47 49	2	7.30 K0	1-2-1	" 43 " "
	1 44 W	4 30	2	7.53 K0	1-2-1	" 21 Sky clears
	0 12 E	34 00	2	5.53 B8	1-2-1	B.S.C.
		32 29	2	6.02 A3	1	" Haze Clouds up fast after start. Cirrus + 3 still thicker.
						Oct. 25 10 MC +08.9 SC -46.3 SW +37.8 H.T.W. +49
	ea					
	"					
	"					
					3 sec	This photo shows no
					1½	signs of sky. Will probably be
					1½	about
					1½	
					1½	

Date Friday Oct 25-26, 11, Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
				Good [illegible] at			19h	[illegible]			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	thick again very	soon.	– Cleared again at 0^{30} but cloudy by 1^{20}			
						Oct. 26 10 MC +09 SC −50 MW −13 SW +37

Date Sat Oct 26-27, 1940 Hal. Bys. Julian Day 9929

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
6276	HD 2739	00 05.8	43 24	I-12	Agfa I	0.10	7.0	21 48	22 32	1	W 16m
6277	5638	00 53.0	46 31	"	"	"	7.0	22 36	23 26	2	W 35m
6278	8671	01 20.4	42 57	"	"	"	7.0	23 30	00 10	3	
6279	21700	03 25.0	27 23	"	"	"	7.0	00 14	01 3x	4	

About 150 minutes. showed M2 and comet Cunningham with 74" (Comet C was very good - easily seen + appreciably diffuse compared with stars - size few seconds of arc).
M showed grey. Sat, Comet C with 4".

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
W 6m	43 36	1	6.59 B8	1-2-1	RA clamping not working.
W 35m	46 03	1	6.75 A0	1-2-1	" Auroral glow in N all evening
W 50m	43 09	1	6.58 F8	1-2-1	"
±0	27 31	1	7M? B9	1-2-1	" M. following. cloud, 0^{50}-0^{52}; 1^{32}

Date Sunday, Oct. 27, 1940 B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
6280	H.D. 189377	19 54.6	41 59	I-123	Astra I	.010	+5.9	17 58	18 50	1	
6281	199154	20 50.2	47 53	"	"	"	+5.9	~~18 06~~ 19 56	20 16	2	
6282	201174	21 02.5	47 39	"	"	"	5.9	20 20	21 50	1	
6283	2054	00 19.7	52 30	"	"	"	5.8	21 55	22 11	3	
6284	9531	01 28.5	36 44	"	"	"	5.8	22 17	22 35	1	
6285	12279	01 53.4	64 25	"	"	"	5.8	22 43	23 09	2	
6286	15365	02 23.3	45 34	"	"	"	5.9	23 14	00 34	4	
6287	17[illegible]	02 43.2	66 03	"	"	"	5.9	00 39	01 03	1	
6288	21051	03 18.7	12 17	"	"	"	5.8	02 14	03 18	2	
6289	35956	05 23.2	12 29	"	"	"	5.8	03 23	04 43	3	
6290	39150	07 23.6	14 34	"	"	"	5.8	04 48	06 10	4	

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 02 W	42 06	1	6.57 A_2	1-2-1	KSA 39 Standard watch stopped after beginning of exp.
1 32 W	41 22	1-2	7.23 A_5	1-2-1	" 40 setting 9 Hrs on star at first.
3 54 W	47 48	1	7.50 A_0	1-2-1	" 40
0 03 E	52 43	2	5.70 B_9	1-2-1	B.S.C.
0 48 E	36 56	2	5.75 B_9	2-2	B.S.C.
0 43 E	64 38	2	5.98 A_2	1-2-1	B.S.C.
0 17 W	45 46	2	7.55 G_5	1-2-1	KSA 22
1 25 W	60 13	2	7.44 A_3	1-2-1	" 9
2 07 W	12 24	1	7.00 G_5	1-2-1	" 71
1 23 W	12 31	1	7.31 F_5	1-2-1	" 73
0 55 W	14 26	1	7.12 A_3	1-2-1	" 75

Date Thursday Oct 28-29 1940 M-L **Julian Day** 9931

Sidereal Watch Time

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
-6291	HD 193637	20 16.2	+33 37	I-12	Astra II	.020 L	+4.9	20 10	22 20	1	
6292	2 1936 1	23 10.1	27 32	—	—	.010 L	+4.9	22 24	23 44	2	
-6293	BD 630110	00 46	63 33	—	—	.020 L	+5.0	23 50	03 10	3	
-6294	H.D. 32419	04 58.0	41 09	"	"	"	+5.0	03 20	06 20	4	
6295	" 45757	06 24.2	17 59	"	"	.010	+5.0	06 40	08 20	1	

Pointer at 24.5-8.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2	03 W	33 · 45	1-0	8.6	A ½-1-½	
2	33 W	27 45	1	6.95	Ao 1-2-1	
2	20 W	63 46	2	9.1	½-1-½	
1	50 W	41 12	2	8.9	Ao ½-1-½	
1	54 W	17 55	1-2	7.33	Ao 1-2-1	Start delayed by clouds.

		MC	SC	S.W.	
Oct. 29	10	+11.4	-53.7	+44.0	
				-16.0	adv. 1m
Oct. 30	13	+12.0	-55.5	-13.6	
Oct. 31	10	+12.7	-57.2	-12.1	

Date 194_ Nov. 0-1 Tuesday, Bs B **Julian Day** 9934

Sidereal Watch

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time ~~E.S.T.~~	Ending Time ~~E.S.T.~~	Hour Angle End	
-6296	SZ Psc HD 219, 113	22 08 3	+02°08	1-12	Astro	.020	+7°.5 C	23 16	23 16		3
-7	215.943	22 43.7	+36°52	-	-	.010	+7°.+	23 19	00 09		4
6298	3881	00 36 3	+59°23	-	-	-	+7°5	00 13	01 37		1
6299	21,970	03 27.4	+75°24	-	-	-	+7°.5	01 47	02 58		2
6300	31590	04 52.0	+73 55	"	"	"	+7.4	03 05	(04 01)		3
		11 1	[illegible]	Y. Cs	Pan						

Saturday, Nov 2-3, 1940, M-Cs Clouds and rain with occasional rain again at 20.00 hrs

Pointer at 268

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
+	+ 23° 23	1-2	9.0 G5	½-1-½	Binary M1
+1^{24}	+37° 07	2	7.00 K0	1-2-1	BSC (H)
+0^{58}	+53° 35	2	7.43 A3	1-2-1	KSA 8 (H)
0^{34}E	+75° 32	2	7.16 G5	1-2-1	" 3(H)
(0^{56}E)	+73 48	2	6.06 A2	1-2-	" 3(H) Thick haze - 2 mag.!

Cloudy at 400 Ended 459

		MC	SC	SW
Nov. 1	18	+14^{s}	−1^{m}00^{s}	−11^{s}
Nov. 2	10	+13.5^{s}	−1^{m}00.8^{s}	−10.2^{s}

overall breaks when stars offscale

Horizontal, clear & cloud, from 23^{h} 6 2^{h}. Thick at 2^{h}30 + 3

Date Sunday, Nov, 3-4 1940, B-L Julian Day

Sidereal Time

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6301	H.D. 175443	18 50.3	27 47	I-12	Ultra II	.010	+9.8	20 19	21 05	1
6302	190405	1959.7	17 26	"	"	"	+9.8	21 31	22 51	2
6303	202313	21 09.9	30 33	"	"	"	+10.5	22 55	00 51	3
6304	8710	01 20.8	43 11	"	"	"	+10.5	00 56	02 50	4
6305	26193	03 09.6	32 29	"	"	"	+10.5	02 55	03 39	1
6306	28447	04 24.1	27 55	"	"	"	+10.5	03 43	04 37	3
6307	34384	05 11.9	28 41	"	"	"		05 08	05 [illegible]	4

Sunday — Nov 4-5, 1940, 1A

Heavy cloud all evening

Nov 5-6 Tues Rain (Y-L)

1940 Nov 6-7 Wed B3-L cloudy + 23°

Nov 7-8 Thurs Snow + NW wind (B3-L)

Pointer at 29.1

Ending Time — E.S.T. —	Hour Angle: End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 33 W	27 50	1-2	6.89 K_2	1-2-1	K.S.A. 63
	2 50 W	17 35	1	7.27 F_8	1-2-1	" 88
	3 39 W	30 44	1	7.56 A_0	1-2-1	" 65
	1 32 W	43 24	2-3	7.27 F_2	1-2-1	" 21 haze + clouds
	0 27 W	32 38	1	6.62 F_0	1-2-1	" 47 haze
	0 33 W	25 01	1	7.42 G_5	1-2-1	" 48
	1 11 W	28 43	2	7.33 A_3	1-2-1	" 49 haze: sky thickening from 6^{00} on. Pressing tube.

			MC	SC	SW
1940 Nov.	4	10	+14.7	-104.3 (wt 1.5)	-06.5
1940 Nov.	5	10	+15.0	-105.5	-05.5
Nov	6	10	+17.2	-106.4 (wt 1.1)	-04.6
Nov.	7	10	+16.9	-106.3	-04.4
Nov.	8	10	+16.8	-106.5	-03.5

Date Friday Nov 8-9, 1940, M—Bs Julian Day 9942

S. d. T.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time ~~E.S.T.~~	Ending Time ~~E.S.T.~~	
-6308	BD 63°110	0 48.6	+63 33	I-12	Astra II	.020	+0.6	0 22	3 20	1
	BrAur									
-6309	HD 32419	04 58.0	+41°09	—	—	—	+0°.5	3 45	7 15	2
6310	51,418	06 52.2	+42°26	—	—	.010	+0°.6	7 22	8 04	3
6311	74,202	08 38.1	+32°26	—	—	—	+0°.5	8 08	9 08	4

Focus test outside this ~~6310~~, inside the other on [illegible] (exposing + exposing this time test [illegible] 6312)

Tuesday Nov 11-12, 1940 11

clouds and light wind -

Cloudy for first part of night.

Hour Angle End	Declination.	Seeing	Ptg. Mag.	Pointer at 21.04 REMARKS
+2 30	63 45	2	9.1	½-1-½ a few light clouds at start Clouds at 21.45 fair 1 hr at 2 30
+2 14	+41° 10	1-2	8 9 A0	½-1-½ RA clamp dead Clouds from 6 0c to 6 40
+1 09	+42° 24	2-1	6.61 A0	1-2-1 KJA 26
+0 28	+32° 17	1-2	6 98 A2	1-2-1 S2
				9-12

		MC	SC	SW	MT	ST
Nov. 9	10	+17.7	−1 06.5	+03.1	+25s.0	+0m.2
Nov. 10	18	+18.1	−1 06	+02.2	+28s.8	+0m.3
Nov. 11	10	+19.0	−1 07.3	+03.4	+31s.0	+0m.2

Night Clerk

Date Nov 12-13 | 40 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
6312	HD 15755	2 26.8	34 06	I 12	astra II	010	+3.6	10 19	11 29		1
6313	HD 26311	4 04.6	33 19	"	"	"	3.7	11 35	00 35		2
6314	" 32784	05 00.5	62 21	"	"	"	3.7	00 45	01 45		3
6315	" 37136	05 31.2	61 53	"	"	"	3.7	01 50	02 50		4
6316	" 50551	06 48.7	57 41	"	"	"	3.7	02 55	03 59		1
6317	" 59033	07 23.1	61 58	"	"	"	3.6	04 04	05 34		2
6318	" 77309	08 36.7	54 41	"	"	"	3.6	05 40	06 10		3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						MC SC SW MT ST (s) (m)
	10m W	34 18	0	6.69 G5	1-2-1	Nov. 12 10 +19.6 -1 06.9 +02.6 -27.0 +0.0 Reset ½ turn
	0 22 E	33 26	0	6.91 K0	1-2-1	B.S.C Very windy in early evening
	0 08 E	62 24	1	6.88 A5	1-2-1	K.S.A 10 clear but did not start 1.17 wind fell,
	0 26 W	61 55	1	6.79 A5	1-2-1	" 10
	0 17 W	57 38	1	7.20 K2	1-2 1	" 11
	1 19 W	61 32	1	7.53 G5	1-2-1	" 11
	0 22 W	54 32	1	5.74 A6	1-2-1	B.S.C.
						Nov 13 10 +20 -1m08 -28 +0s3
						~~Nov. 16~~

Date 1940 Nov 13-14 Wednesday B.S.T. Julian Day 318.7 (uncorrected Greenwich date)

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Filt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6319	HD 201,032	21 02.0	+62° 59	1-12	Astra II	.010	+2.9 C	17 31	19 01	4
6320	207,994 N	21 48.1	+61° 09	"	"	"	+2.9	19 04	20 20	1
6321	223,366	23 44.0	+59° 25	—	—	—	+2.9	20 24	20 59	2
6322	5813	00 59.6	+57° 50	—	—	—	+2.9	20 59	22 09	3
6323	8172	01 17.0	+57° 37	—	—	—	+3.0	22 12	23 22	4
6324	17,058	02 29.5	+60° 04	—	—	—	+3.0	23 09	00 09	1
6325	15476	02 39.1	62 38	"	"	"	+3.0	00 17	01 37	2
	30615	05 22.3	12 33	"	"	"		02 03	—	3
6326	60293	07 28.7	60 44	"	"	"	+3.0	04 33	05 43	4
		1940 Nov	14-15	Y-B	Cloudy					
			15-16	B-B$_5$	Mostly cloudy, w. snow					
			16-17	N-B$_5$	Cloudy with snow					
		Jun 18-19		N	Cloudy all evening					
		About 100 members of Society of Illuminating engineers visited								

I forgot to wind it today. Observing watch stopped about 7h07 C.S.T. Reset it so that corrn. to ST is now +0m.2

Hour Angle End	Declination	Seeing	Ptg. Mag.		Pointer 23.0 REMARKS
+1 11	+63° 09	1-2	7.40 A5	1-2-1	KSA 18 (H) (bad, lifting up in S.E. (I... W)
+1 44	+61° 20	2	7.19 A2	1-2-1	— (Y) N- foll. brighter. Messy clouds in...
+0 22	+59° 40	2	6.38 A0	1-2-1	- 19 (Hd)
+0 26	+58° 02	2	7.23 A2	1-2-1	- 8 (Hd) Messy sky again
+0 50	+57° 48	2	6.87 F5	1-2-1	— (H)
0 42 W	+60° 20	2	6.8. A3	1-2-1	- 9 (Y)
2 10 W	62 47	2	7.37 B8	1-2-1	— (M) Light clouds
—		2	7.46 A0	1-	- 10 (H) Clouded up, shreds of cirrus
1 23 W	60 40	2	6.86 A0	1-2-1	- 11 (Hd) Light clouds, more clouds

	MC	SC	MT	ST	SW
Nov 14 10	+21	-1 08	-1 10	+0m.7	
15 10	+22	-1 07	-1 12	+0.6	+10
16 10	+23.5	-106.3	-116.5	+0.6	+15.2
18 10	+25.5	-106.3	-17s.5	-0m.1	+22.6

Reset

Observatory Y lectured, M demonstrated 74-inch

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.